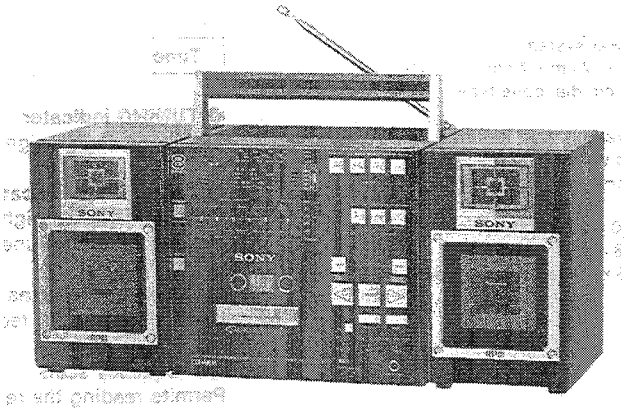
CFS-9000

SERVICE MANUAL

UK Model



'Dolby' and the double-D symbol are the trade marks of Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

SPECIFICATIONS | Tape Transport Mechanism Type | MF-ZX11(UK)-73

Tuner section

System: FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range: 87.6-108 MHz
Antenna: Telescopic antenna

MW tuner section

	MW	LW
Tuning range	530—1,605 kHz	150—255 kHz
Antenna	Built-in ferrite bar antenna	

SW tuner section

	SW1	SW2	SW3	SW4	SW5
Tuning range	5.95-6.2 MHz	9.5-9.8 MHz	11.7-12.0 MHz	15.1-15.5 MHz	17.6-18.0 MHz
Antenna	Telescopic antenna				

Cassette deck section

Recording system: 4-track 2-channel stereo
Frequency response: DOLBY NR OFF
With TYPE IV cassette (Sony METALLIC cassette)
40-16,000 Hz
With TYPE II cassette (Sony CD-α cassette)
40-15,000 Hz
With TYPE I cassette (Sony BHF cassette)
40-14,000 Hz

Amplifier section

Continuous RMS power output
22 W + 22 W
(6 ohms, at 1 kHz, at 10% harmonic distortion) at ac operation
4 W + 4 W (at 10% harmonic distortion) at dc operation

Inputs

	Sensitivity	Impedance
CD/AUX (phono jacks)	440 mV	47 kilohms
PHONO (phono jacks)	4 mV	47 kilohms
MIX MIC (mini jack)	2.5 mV	47 kilohms

Power requirements: 240 V ac, 50 Hz 15 Vdc, 10 batteries, IEC designation R20 (size "D") DC IN 12 V jack accepts; Sony DCC16-AE for use on 12 V car battery

Outputs
HEADPHONES: Accepts headphones of 8-32 ohms
SPEAKER: Accept speakers of 6-8 ohms
LINE OUT: level/impedance 250 mV/47 kilohms

— Continued on page 2 —

0dB = 0.775 V

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

FM/MW/LW/SW STEREO CASSETTE-CORDER

SONY®

TC

Speaker section

Speaker system	2-way speaker system APM woofer: 7 cm × 7 cm Tweeter: 4 cm dia. cone type
Power handling capacity	Music 50 watts Nominal 25 watts
Frequency range	50 Hz - 20 kHz
Impedance	6 ohms
Dimensions	Approx. 120 × 203 × 230 mm (w/h/d) (4¾ × 8 × 9⅛ inches)
Weight	Approx. 1.5 kg (3 lbs 5 oz.) net per unit

General

Power consumption	46 watts
Dimensions	Approx. 465 × 257 × 205 mm (w/h/d) (18⅜ × 10⅛ × 8⅛ inches) incl. projecting parts and controls
Weight	Approx. 9.6 kg (21 lbs 3 oz) incl. batteries

FEATURES

- The CFS-9000 is a compact high-density stereo cassette-corder combined with FM/MW/LW/SW$_{1-5}$ 8 band tuner.
- Total 44 W power output (22 W + 22 W, at 10% harmonic distortion) under ac operation.
- A two-way speaker system with an APM (Accurate Pistonic Motion) woofer provides clear sound.
- Auto-reverse function enables you to repeat playback of both sides of the cassette, once or continuously without turning the cassette over.
- Automatic tape selector (ATS) automatically sets the optimum bias current and equalization characteristics for the tape being played.
- The tuner has high sensitivity and high selectivity.

FUNCTION OF CONTROLS

Tuner section

❶ TUNING indicator
Lights up when a signal is tuned in accurately.

❷ FM STEREO indicator
This indicator will light when an FM stereo program of sufficient signal strength is tuned in.

❸ Telescopic antenna
Used for FM or SW reception.

❹ Frequency scale
Permits reading the received frequency.

❺ SW band selector
Choose the desired SW band, after pressing the SW band select button.

❻ BAND SELECT buttons
Select the desired band.

❼ TUNING knob
Turn the tuning knob to the left for a lower frequency and to the right for a higher one.

Amplifier section

❽ POWER switch
Press to turn on the powers of amplifier, tuner and cassette deck. To turn them off, press it again.

❾ Graphic equalizer controls
Slide downwards or upwards to equalize the reproduced sound. When the equalizer is not used, set the controls to 0 (center position).

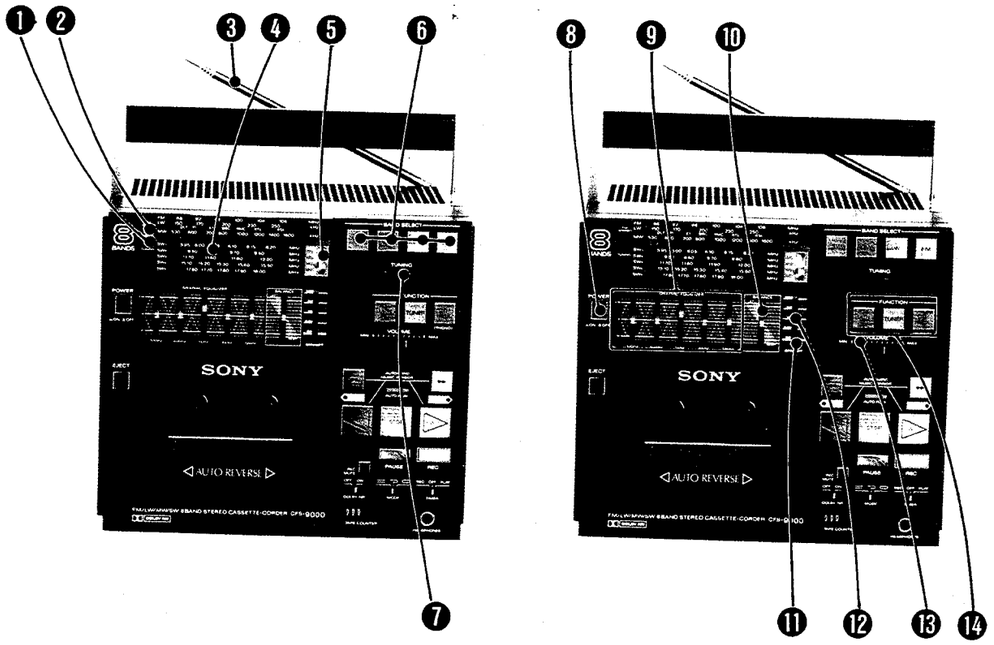
❿ BALANCE control
This controls the balance of the left and right channel output level. Normally set the control to the center position.

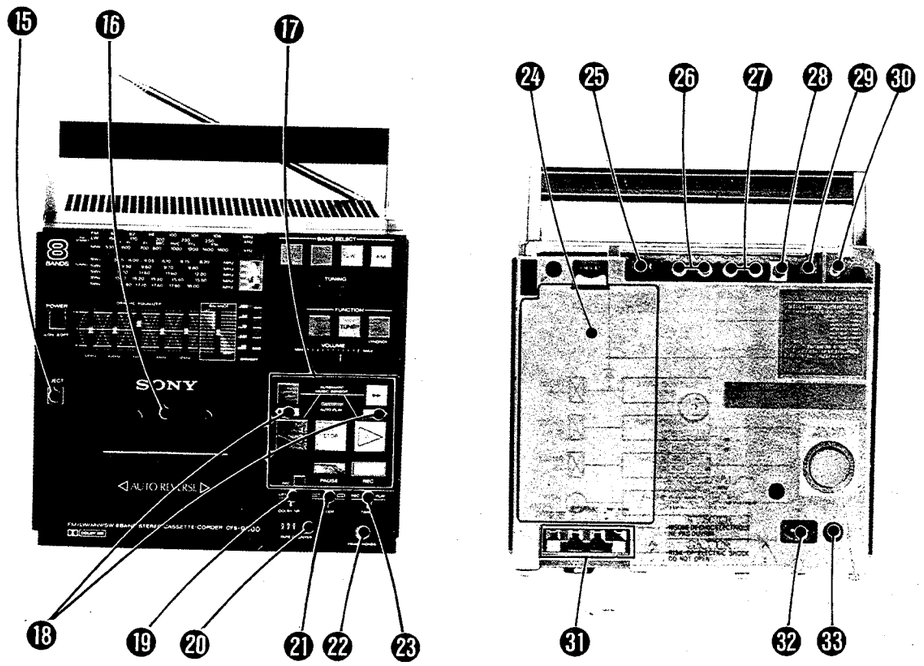
⓫ OPR/BATT indicator
This indicator lights up while the unit is in operation. On battery operation, this also shows the battery condition.

⓬ PEAK POWER LEVEL meters
These meters show the output level of the power amplifier.

⓭ VOLUME control
This controls the overall output level.

⓮ FUNCTION selectors
Press the desired program source button.
A turntable system, CD player or cassette deck (playback only) can be connected to the PHONO/CD/AUX jacks. Set the PHONO/CD/AUX selector to PHONO when listening to records and to CD/AUX when listening to CDs or to the connected cassette deck.





Cassette deck section

⑮ EJECT button
Press this button to open the cassette holder.

⑯ Cassette holder

⑰ Function buttons
It is possible to switch directly from one mode to another.
FWD (forward) button: Press this button to play back the front side of the cassette. The tape is transported to the right.
►► (fast-forward) button: Press this button to advance the tape rapidly to the right.
REC (record) button: Press this button together with the FWD button to start recording. The indicator will illuminate.
STOP button: To stop the tape, press this button.
PAUSE button: Press this button to stop the tape for a moment during recording and play back of the front side of the cassette. To restart, press the button again. This button is also used to release the record mode.
REC MUTE (record muting) button: Press this button to eliminate unwanted material and to insert a blank space during recording.
REV (reverse) button: Press this button to play the reverse side of the cassette.
◄◄ (fast-reverse) button: Press this button to advance the tape rapidly to the left.
AUTO PLAY button: While advancing the tape rapidly to the right or to the left, press this button to play automatically from the beginning of the reverse side or fron the front side of the cassette.

⑱ Tape direction indicators
Show the direction of the tape transport.

⑲ DOLBY NR switch
To record with the Dolby NR* (Noise Reduction) process, set it to ON. To record without the Dolby NR process, set it to OFF. When playing back, set this switch to the same position used in recording.

*"Dolby" and the double-D symbol are trade marks of the Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

⑳ TAPE COUNTER and reset button
The tape counter provides a numerical reference point while recording which can be used to index a recorded cassette. To reset to zero, press the reset button.

㉑ MODE (tape playback mode) selector
Select the playback mode.
: for repeat playback of both sides of a cassette.
: for playing back both sides of a cassette once only.
: for playing back either the front side or the reverse side of a cassette once only.

㉒ HEADPHONES jack
Accepts any headphones. The headphone volume can be adjusted with the volume control.

㉓ TIMER switch
You can set the unit to record or play back at a predetermined time by connecting any commercially available timer.

rear panel

㉔ Battery compartment

㉕ FM MODE/ISS (interference suppress switch) selector
FM MODE: Used for FM reception. Normally set the selector to FM ST. Set to MONO when it is hard to hear the broadcast due to noise.
ISS: Used for MW program recording.

㉖ LINE OUT (line outuput) jacks (phono jacks)
For connecting an additional cassetle deck to duplicate a tape or to record the mixed sound of the microphone and the built-in cassette deck.

㉗ PHONO/CD/AUX jacks (phono jacks)
For connecting a turntable system, CD player or cassette deck.

㉘ Ground terminal (⏚)
For connecting the ground wire of a turntable system.

㉙ PHONO/CD/AUX selector
Set this selector to PHONO when connecting a turntable system. Set to CD/AUX when connecting a CD player or cassette deck.

㉚ MIX MIC (mixing microphone) jack (minijack)
For connecting a microphone for mixing.

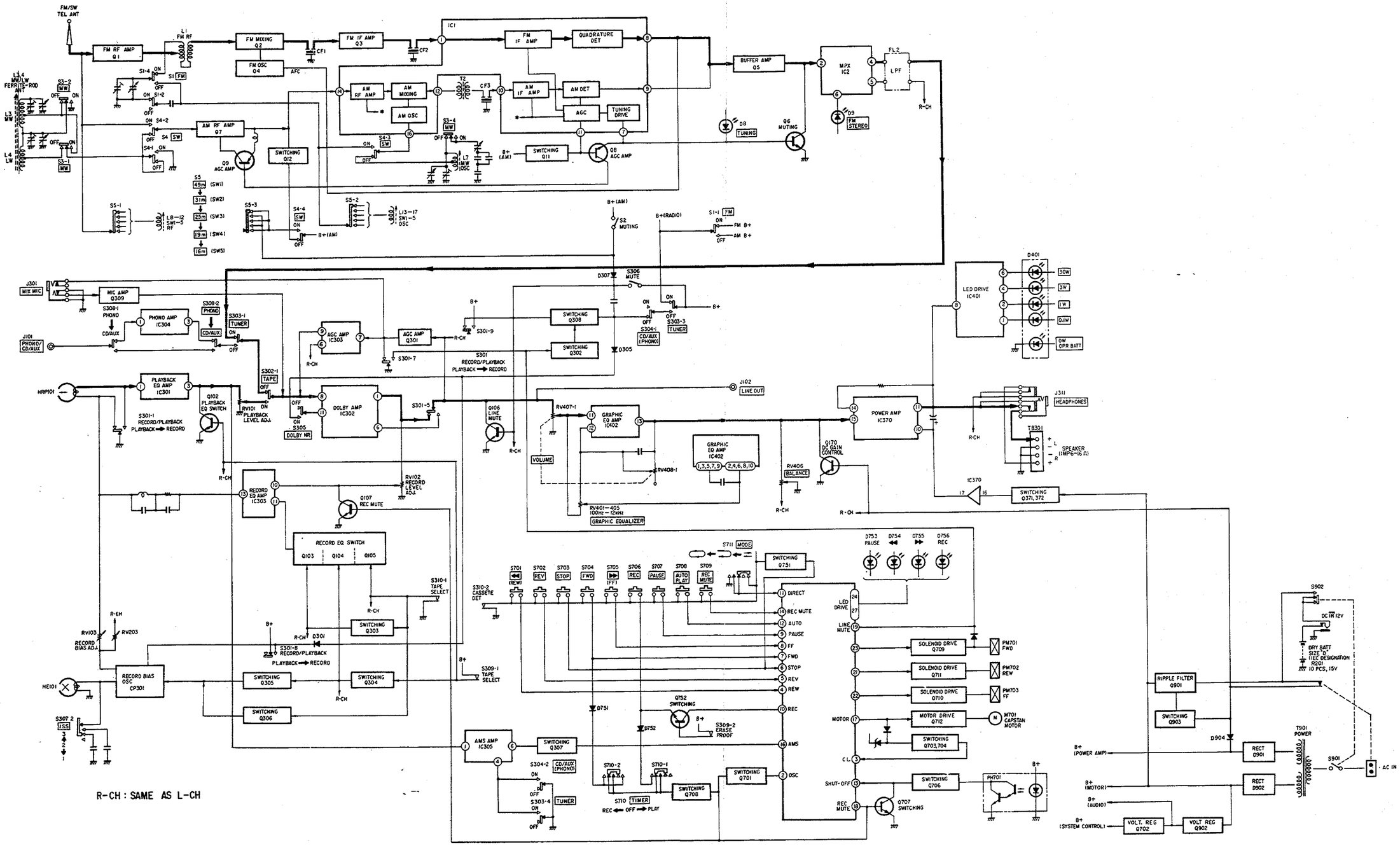
㉛ Speaker terminal
Connect the speaker system with the supplied speaker cords.

㉜ AC IN (power input) jack
For connecting the supplied ac power cord.

㉝ DC IN (external power input) 12 V jack
For connecting an optional car battery cord DCC-16AE.

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

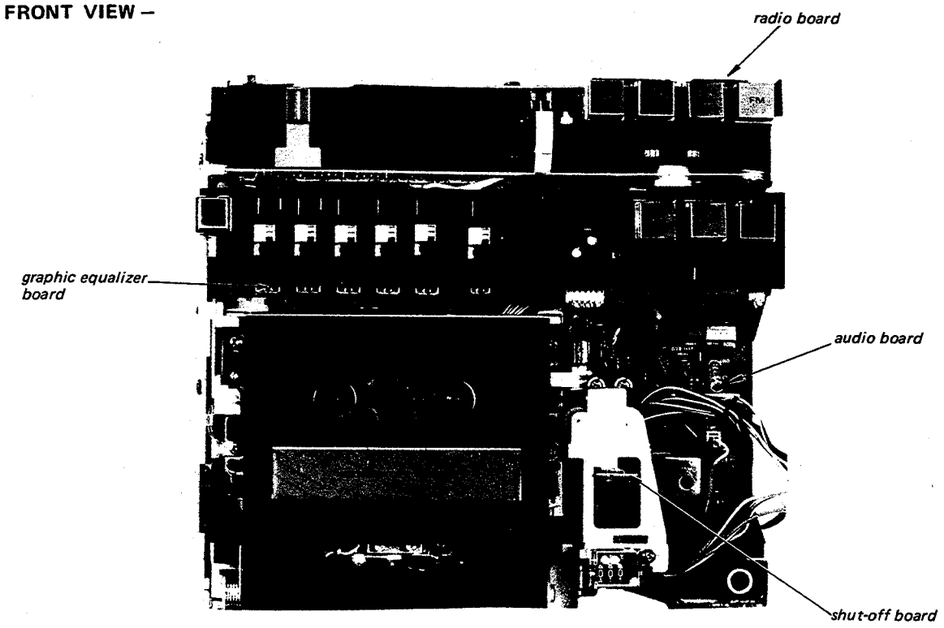


SECTION 2
DISASSEMBLY

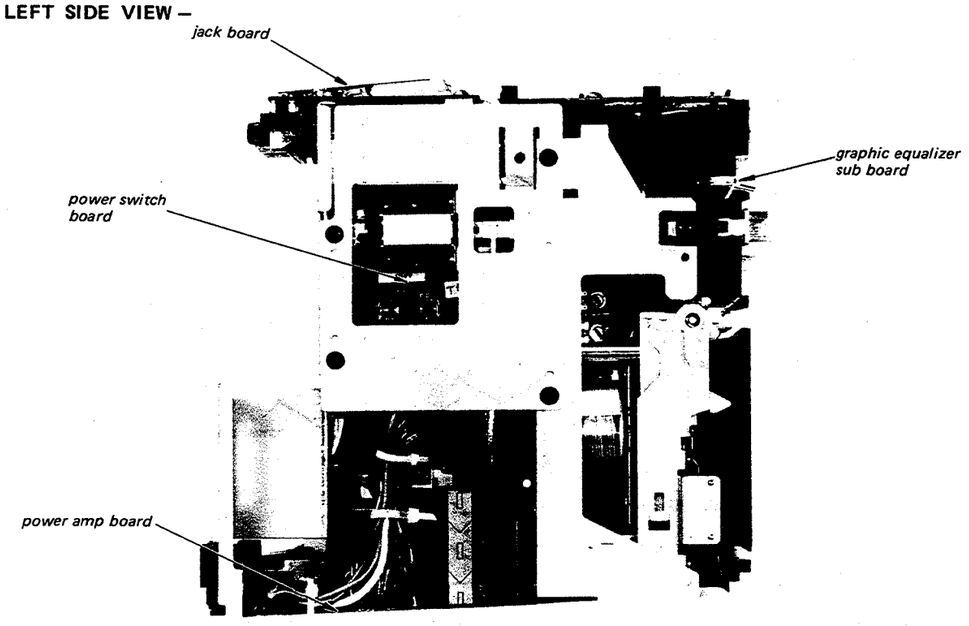
Note: Follow the disassembly procedure in the numerical order given.

REFERENCE PHOTO (with main cabinet and front panel removed)

– FRONT VIEW –

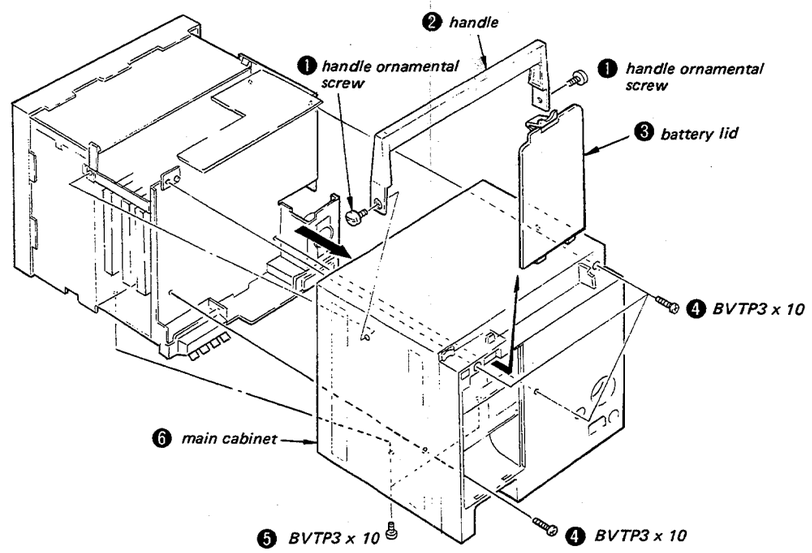


– LEFT SIDE VIEW –

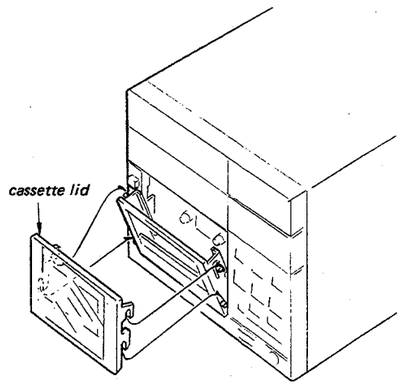


2-1. REMOVAL

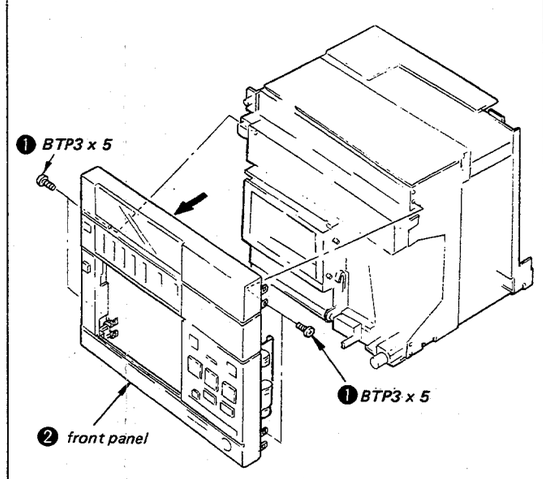
MAIN CABINET



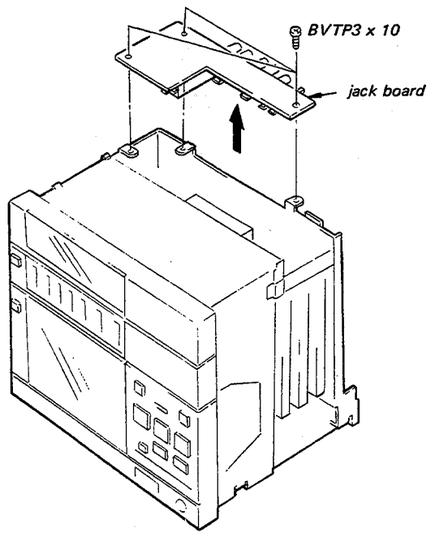
CASSETTE LID



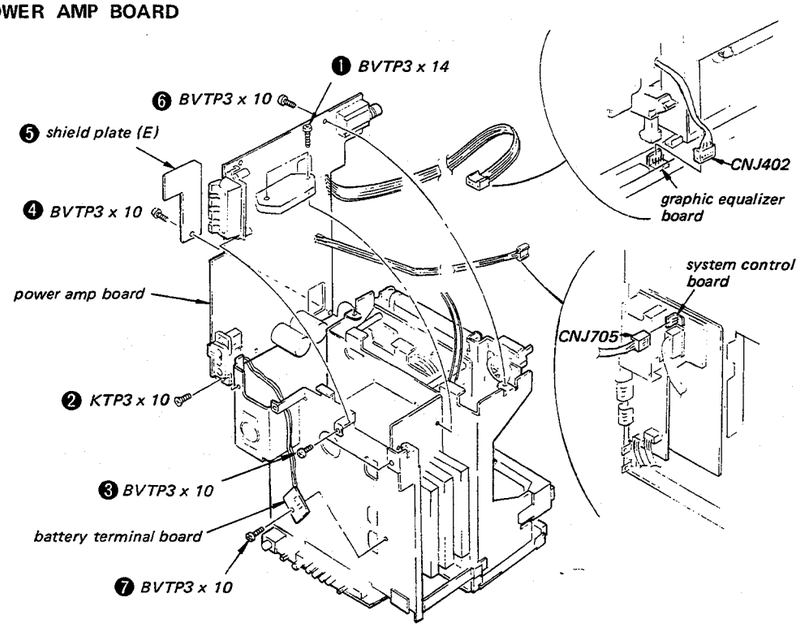
FRONT PANEL



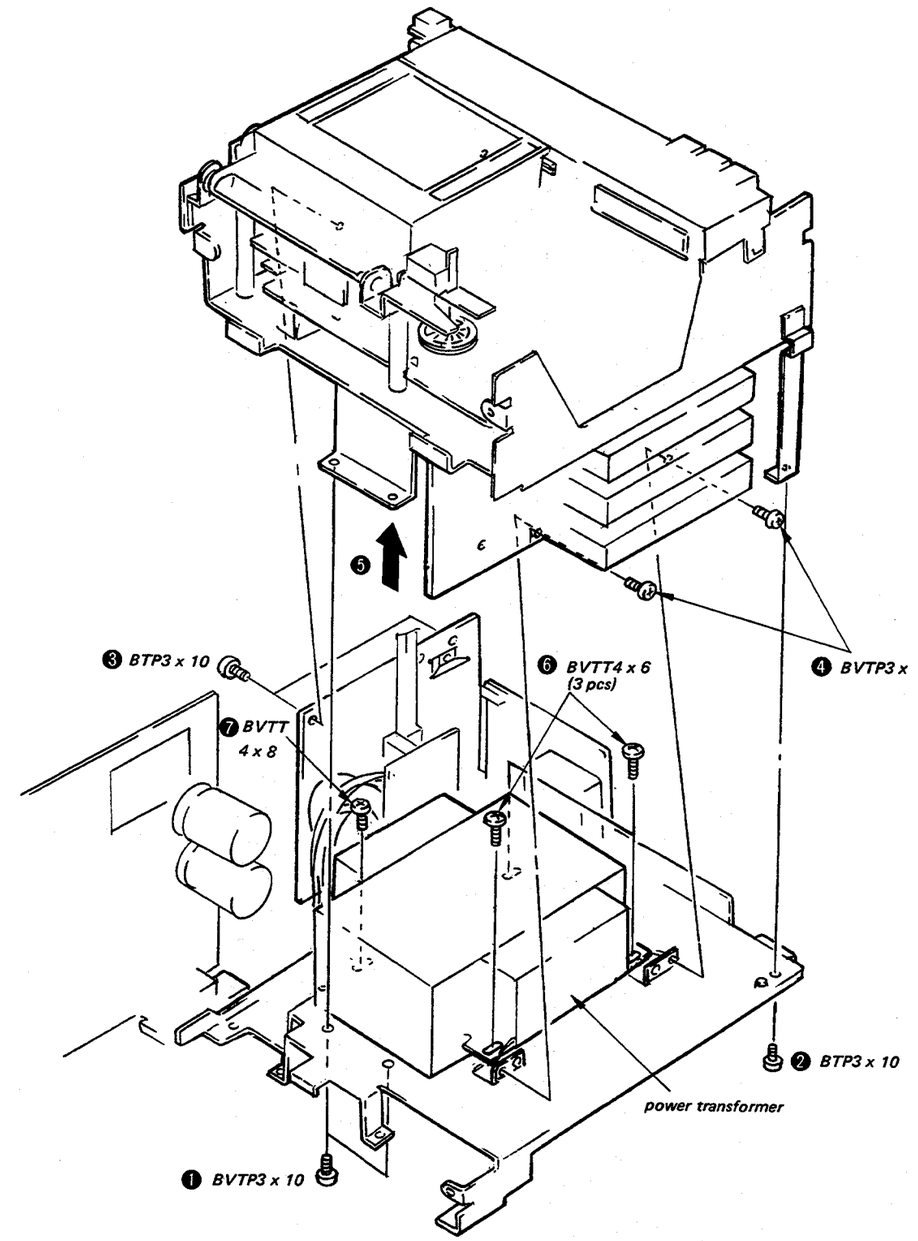
JACK BOARD



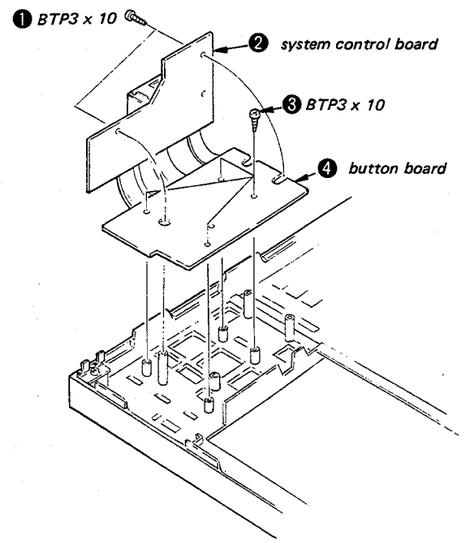
POWER AMP BOARD



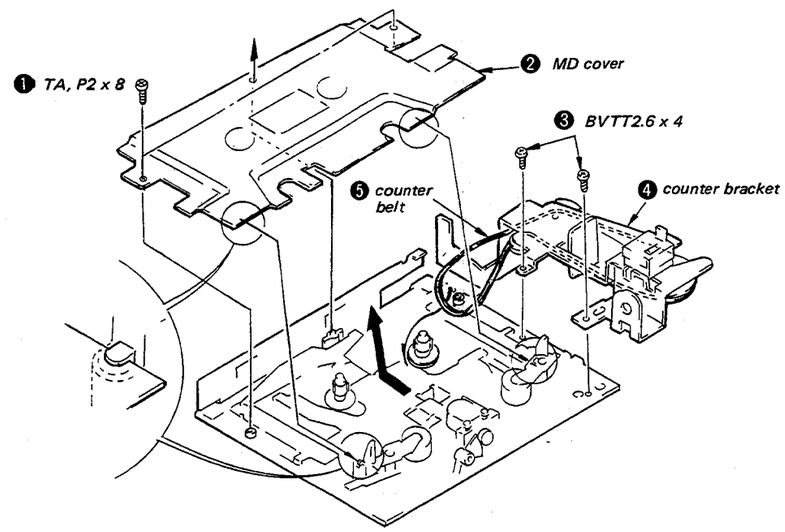
POWER TRANSFORMER



BUTTON BOARD / SYSTEM CONTROL BOARD

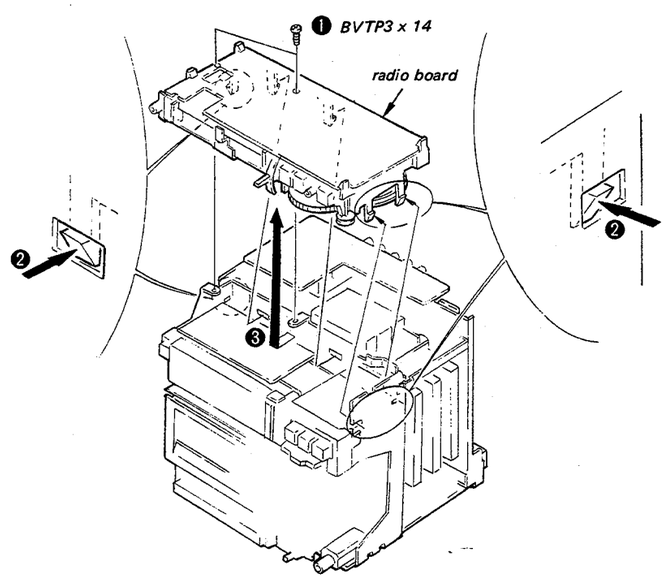


MD COVER and COUNTER BELT

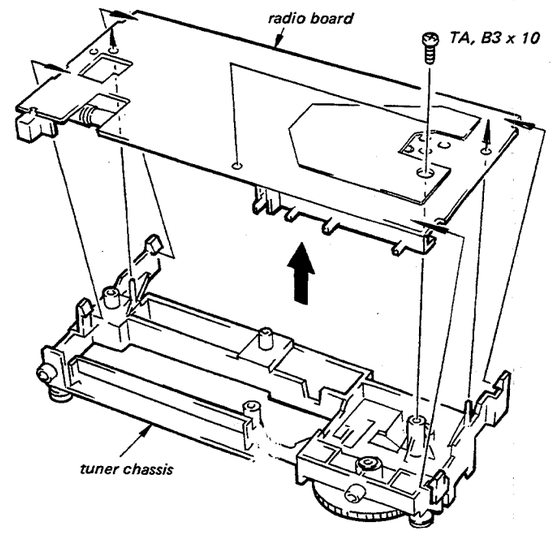


FRONT PANEL
(See page 8.)

RADIO BOARD (1)

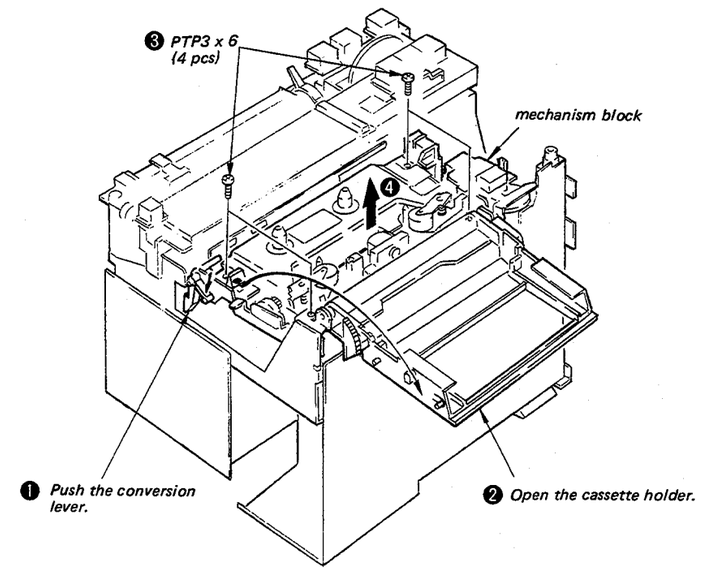


RADIO BOARD (2)

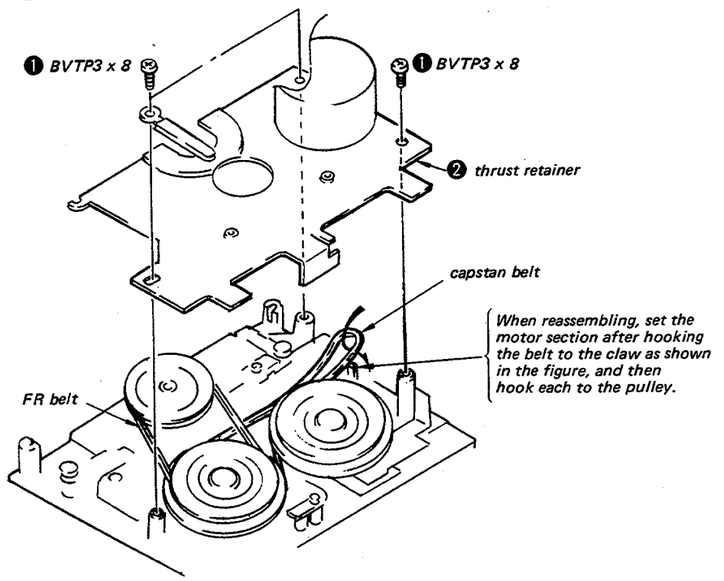


DIAL CORD STRINGING
(See page 15.)

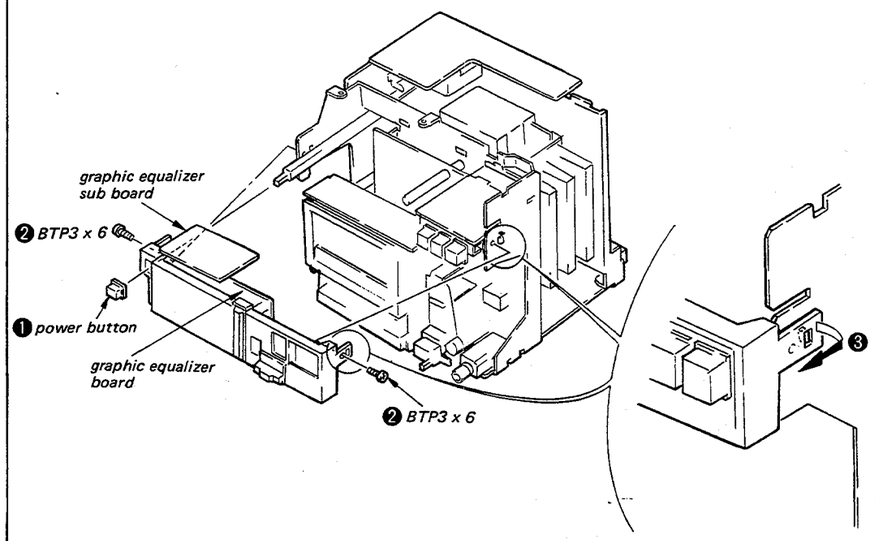
MECHANISM BLOCK



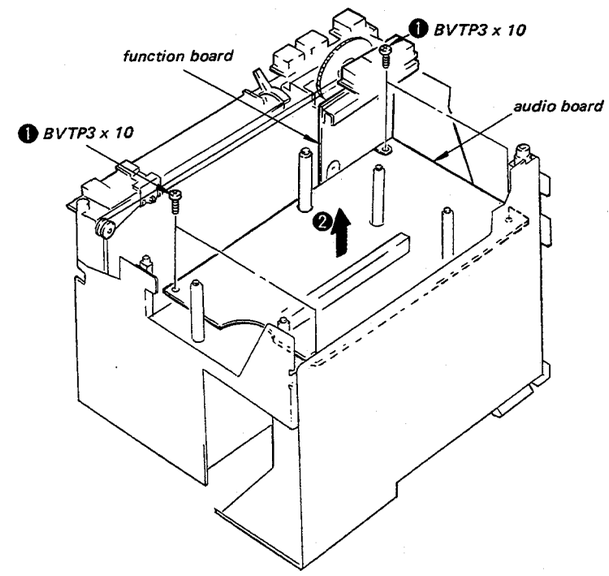
CAPSTAN BELT and FR BELT


❶ BVTP3 x 8
❶ BVTP3 x 8
❷ thrust retainer
capstan belt
When reassembling, set the motor section after hooking the belt to the claw as shown in the figure, and then hook each to the pulley.
FR belt

GRAPHIC EQUALIZER BOARD / GRAPHIC EQUALIZER SUB BOARD

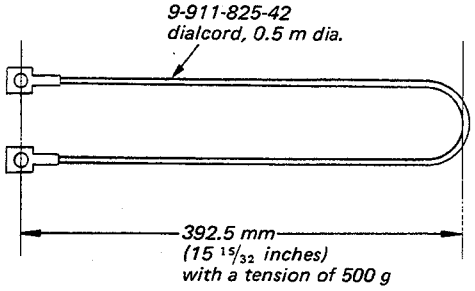


AUDIO BOARD / FUNCTION BOARD

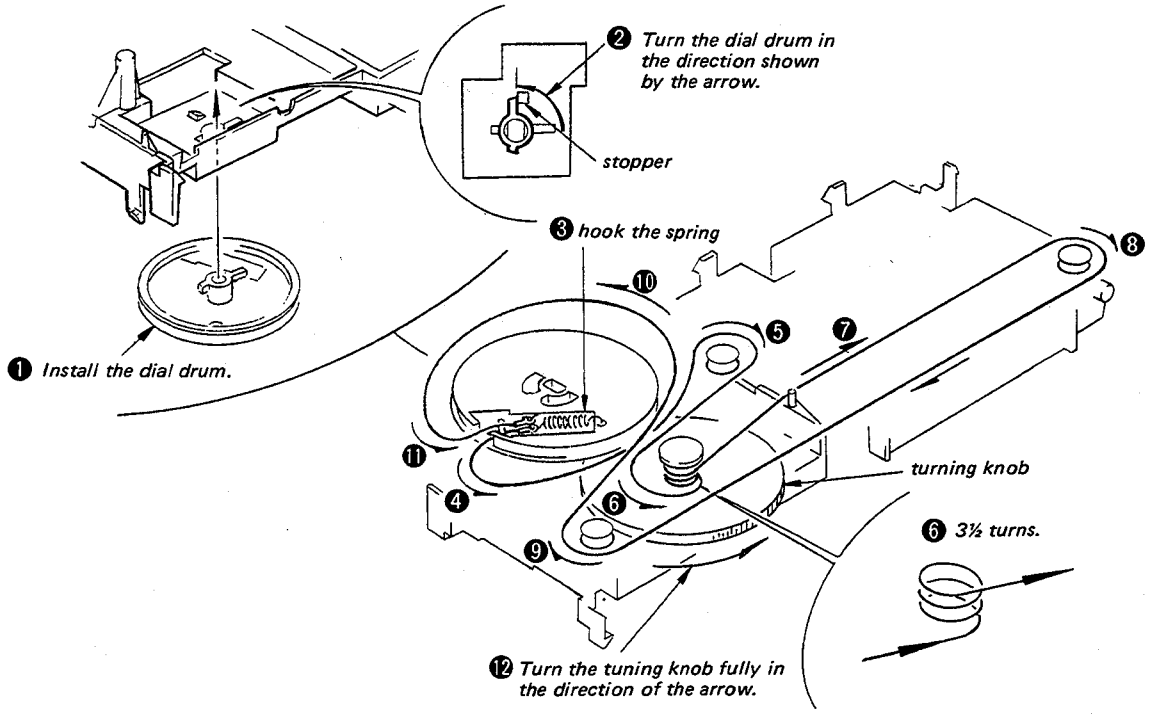


2-2. DIAL CORD STRINGING

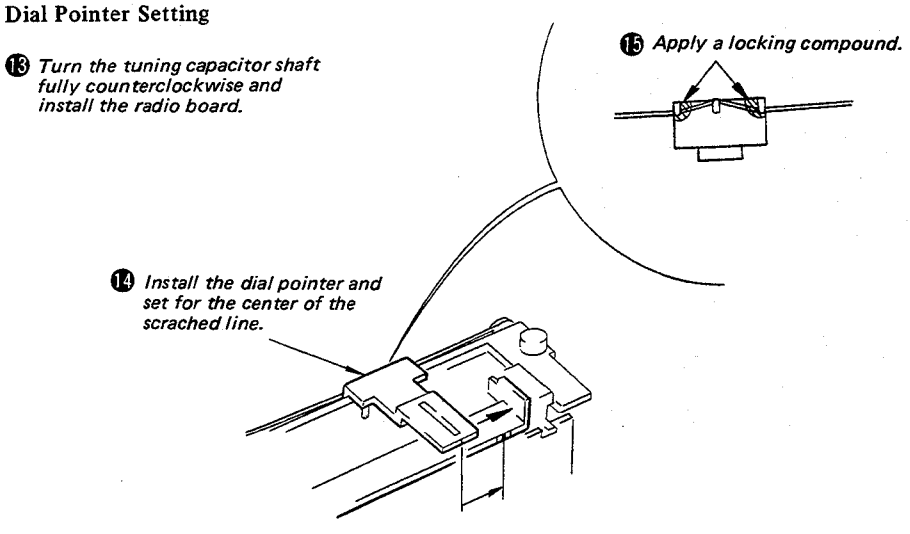
1) Dial Cord Preparation



2) Dial Cord Stringing


❷ Turn the dial drum in the direction shown by the arrow.
stopper
❸ hook the spring
❶ Install the dial drum.
turning knob
❻ 3½ turns.
❿ Turn the tuning knob fully in the direction of the arrow.

3) Dial Pointer Setting


⓭ Turn the tuning capacitor shaft fully counterclockwise and install the radio board.
⓯ Apply a locking compound.
⓮ Install the dial pointer and set for the center of the scrached line.

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

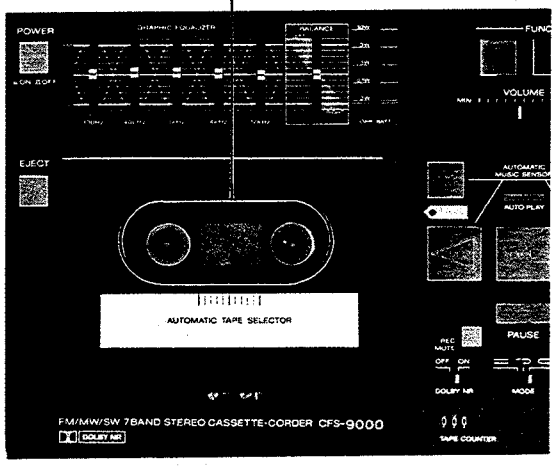
Notes

1. Before adjusting, wipe the following parts with a cloth moistened with alcohol.

REC/PB head	pinch roller
erase head	rubber belt
capstan	idler

2. Degauss the REC/PB head with a head degausser.
3. Do not use a magnetized screwdriver for adjustments.
4. After adjusting, screw lock the adjusted parts.
5. Unless otherwise indicated, perform adjustments at specified voltage.

Torque	Torque Meter	Measured Value
FWD torque	CQ-102C	24 – 55 g·cm (0.33 – 0.76 oz·inch)
FWD back tension torque	CQ-102C	2 – 5 g·cm (0.03 – 0.07 oz·inch)
REV torque	CQ-102R B	24 – 55 g·cm (0.33 – 0.76 oz·inch)
REV back tension torque	CQ-102R B	3 – 6 g·cm (0.04 – 0.08 oz·inch)
FF-REW torque	CQ-201B	75 – 130 g·cm (1.04 – 1.80 oz·inch)



Head Height Adjustment

Be sure to perform this adjustment when replacing the erase head, head mounting table assembly, or REC/PB head.

– PB mode –

1. Use a mirror cassette and adjust so that there is no tape curl.
2. Change the head mounting table assembly height adjustment shim and REC/PB head height adjustment shim so that the REC/PB head core position is correct for both FWD/REV.

Erase Head Height Adjustment Shim

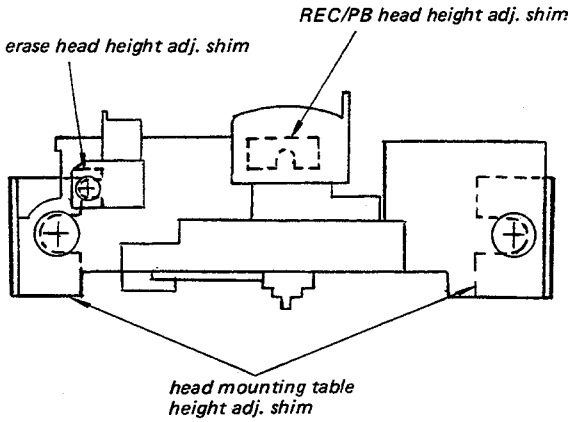
Part No.	t
3-573-466-01	0.1
3-573-466-11	0.2

Head Mounting Table Height Adjustment Shim

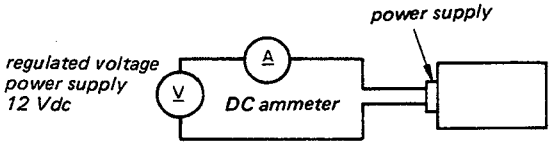
Part No.	t
3-313-757-01	0.1
3-313-757-11	0.15
3-313-757-21	0.2

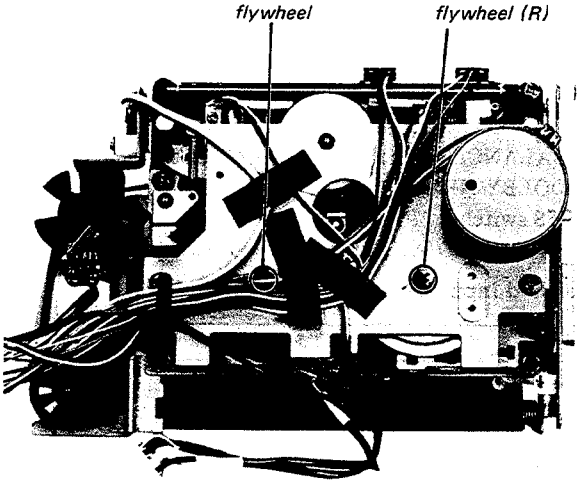
REC/PB Head Height Adjustment Shim

Part No.	t
3-313-758-01	0.1
3-313-758-11	0.15
3-313-758-21	0.2



Thrust Play Adjustment

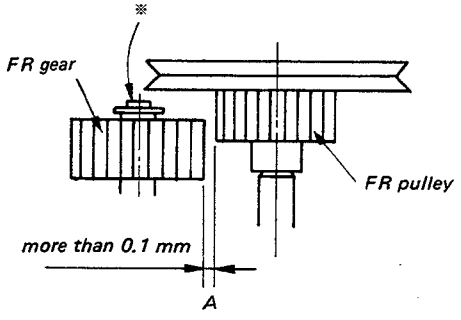




1. Loosen the adjustment screw by turning counter-clockwise.
2. Put in FWD mode and turn the adjustment screw clockwise little by little to tighten.
3. Current will increase suddenly at a certain point. Loosen ¼ turn from this point and set.
4. After adjustment, lock the screw.
   Referecne: thrust screw pitch
   0.5mm/1 rotation
   Specification: flywheel · flywheel (R)
   within 0.15 – 0.35 mm

FR Gear Clearance Adjustment

Put in STOP mode, and bend the part marked ※ so that the value A is more than 0.1 mm.



3-2. ELECTRICAL ADJUSTMENTS

TAPE RECORDER SECTION

Note: The adjustment should be performed in the order given in this service manual.
The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.

GRAPHIC EQUALIZER control
. . . . . Mechanical mid.
VOLUME control . . . . . MIN.
BALANCE control . . . . . Mechanical mid.
DOLBY NR switch . . . . . OFF.
ISS switch . . . . . II.
PHONO, CD/AUX switch . . . . . CD/AUX.

Standard Input Level

	MIX MIC	PHONO	CD/AUX
Source impedance	300 Ω	2.2 kΩ	10 kΩ
input level	4.4 mV (–45 dB)	4 mV (–46 dB)	0.44 V (–5 dB)

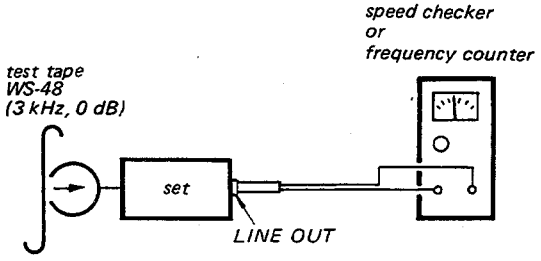
Standard Output Level

	LINE OUT	SPEAKER OUT
Load impedance	47 kΩ	6 Ω
Output level	0.25 V (–9.8 dB)	0.775 V (0 dB)

Tape Speed Adjustment

Procedure:

Mode: forward playback

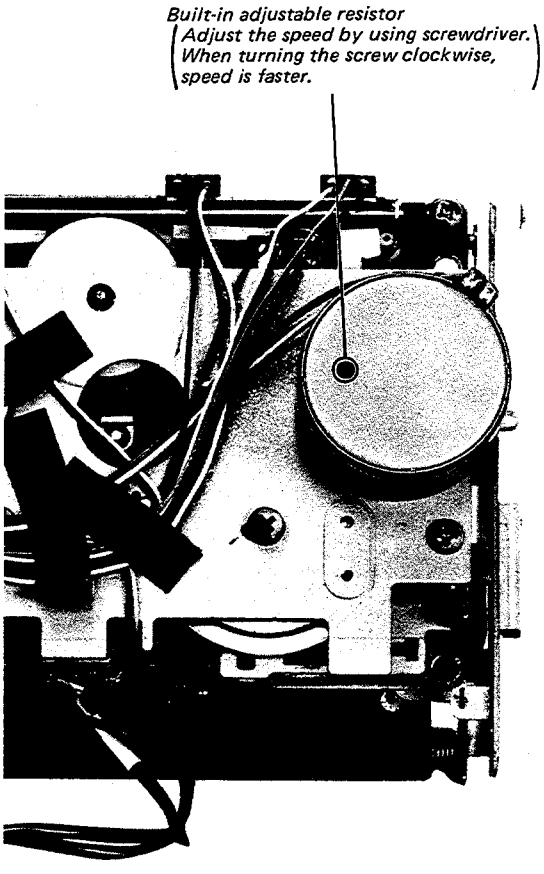


Specification:

Speed Checker	Digital Frequency Counter
–2.5% to +3%	2,925 to 3,090 Hz

Frequency difference between the biginning and the end of the tape should be within 1% (30 Hz).

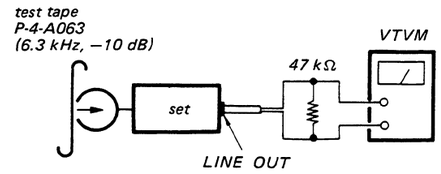
Adjustment Location:



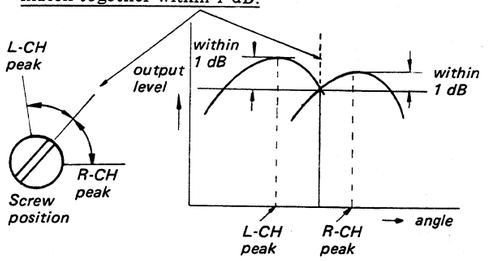
Forward Record/playback Head Azimuth Adjustment

Procedure:

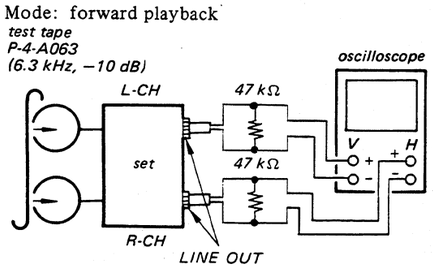
1. Mode: forward playback

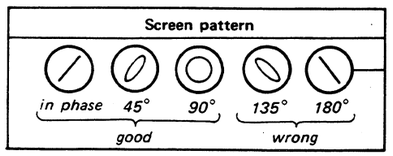


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.



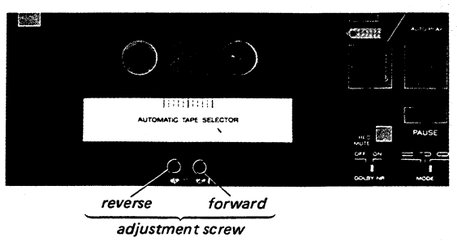
3. Mode: forward playback





4. Select the reverse mode, and repeat the steps 1–3.
5. After the adjustment, lock the screw with locking compound.

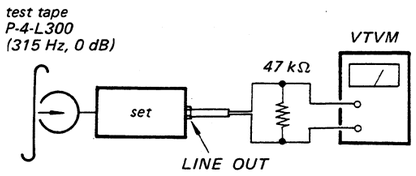
Adjustment Location:



Playback Level Adjustment

Procedure:

Mode: forward playback

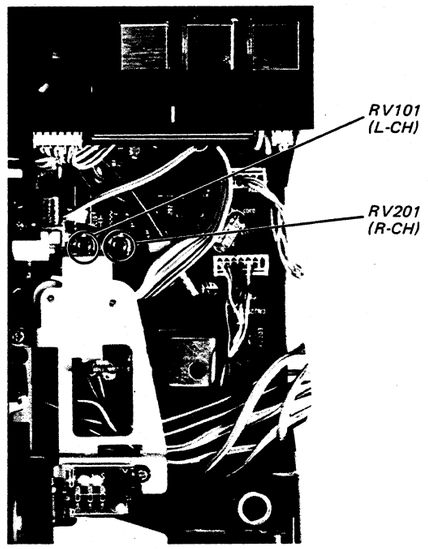


Adjust the RV101 (L-CH) and RV201 (R-CH) so that the specification is met.

Specification:

LINE OUT level: 0.25 to 0.26 V
(−10 to −9.6 dB)
Level difference between channels:
less than 0.5 dB
Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

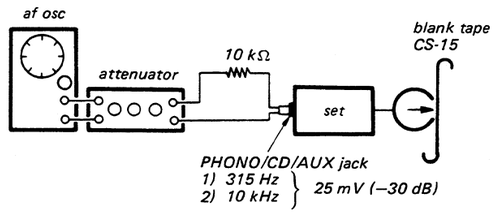
Adjustment Location: audio board



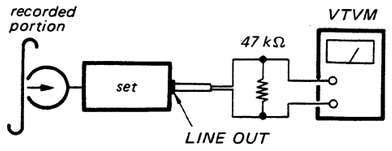
Record Bias Adjustment

Procedure:

1. Mode: record

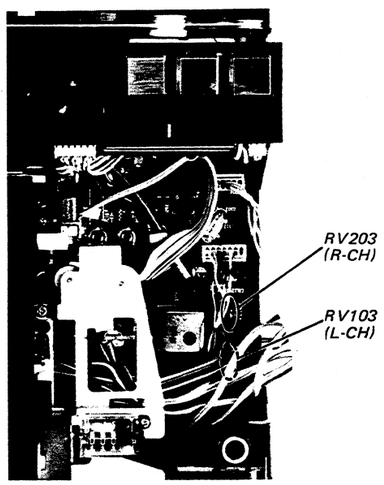


2. Mode: playback



Confirm that the 10 kHz playback output is 0 dB relative to the 315 Hz output. If necessary, adjust RV103 (L-CH), RV203 (R-CH) and repeat the steps given above.

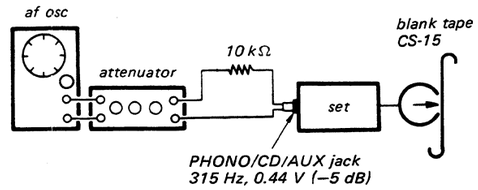
Adjustment Location: audio board



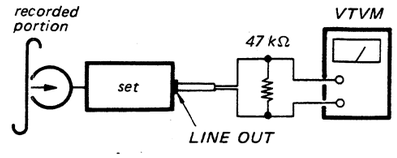
Record Level Adjustment

Procedure:

1. Mode: record



2. Mode: playback

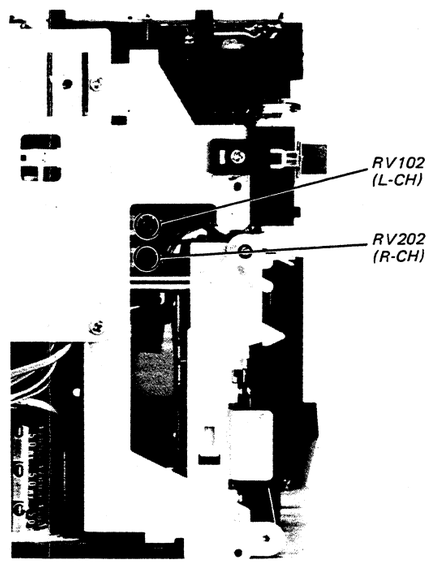


3. Play back the signal recorded in step 1.
Confirm that the signal level is within the specification below. If necessary, adjust RV102 (L-CH), RV202 (R-CH) and repeat the step 1-3.

Specification:

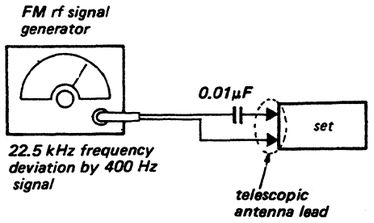
LINE OUT level: 0.24 to 0.27 V
(−10.3 to −9.3 dB)

Adjustment Location: audio board

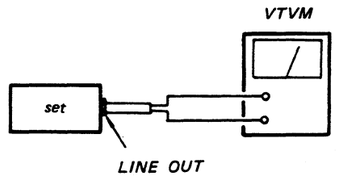


RADIO SECTION

• FM SECTION



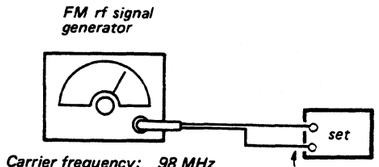
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

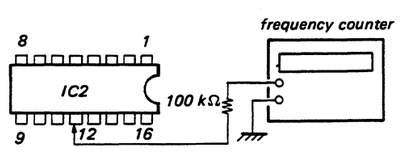


VCO Adjustment

A) Regular Method

Procedure:



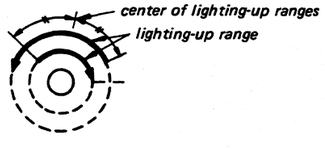


1. Tune the set to 98 MHz.
2. Adjust RV1 for 19 kHz ±0.1 kHz on the counter.

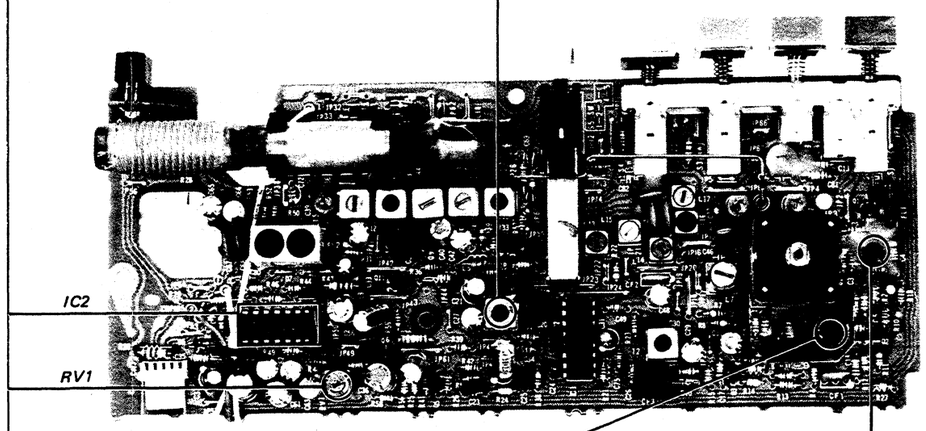
B) Simple Method

Procedure:

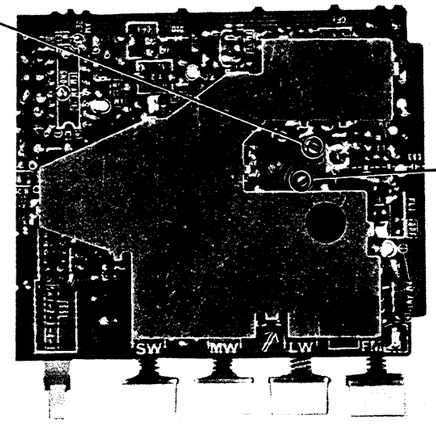
1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV1 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
3. Secure RV1 at the center of the lighting-up range of both turns as shown below.



FM IF ALIGNMENT (10.7 MHz with no modulation)
Adjust for 0 V reading on VTVM.
T1



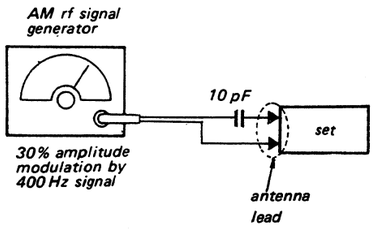
86.5 MHz	L2
109.5 MHz	CT1
Adjust for a maximum reading on VTVM.	
FM FREQUENCY COVERAGE ADJUSTMENT	

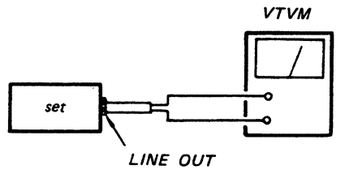


FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L2	86.5 MHz
CT2	109.5 MHz

• AM SECTION

SW

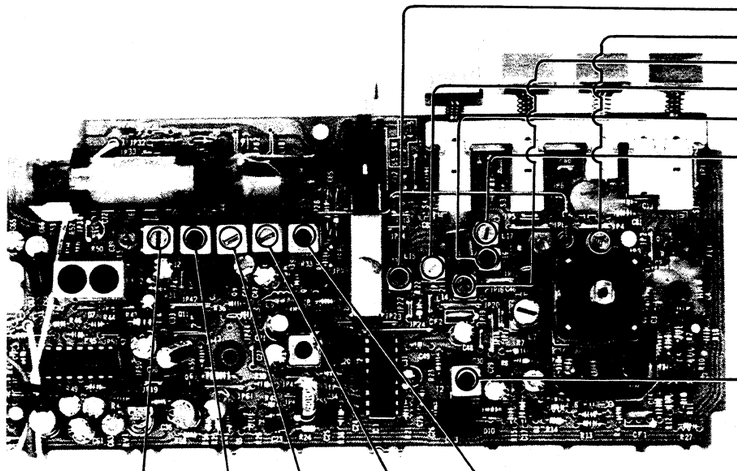




- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

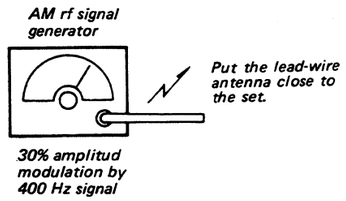
SW FREQUENCY COVERAGE ADJUSTMENT			
Adjust for a maximum reading on VTVM.			
L13	5.90 MHz	dial min.	SW1
CT7	6.25 MHz	dial max.	
L14	9.65 MHz		SW2
L15	11.85 MHz		SW3
L16	15.30 MHz		SW4
L17	17.80 MHz		SW5

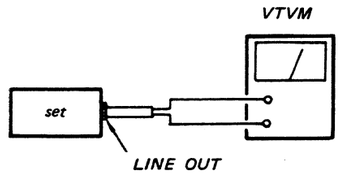
AM IF ALIGNMENT (MW/LW/SW)	
Adjust for a maximum reading on VTVM.	
T2	468 kHz



L12	L11	L10	L9	L8
17.80 MHz	15.30 MHz	11.85 MHz	9.65 MHz	6.075 MHz
SW5	SW4	SW3	SW2	SW1
Adjust for a maximum reading on VTVM.				
SW TRACKING ADJUSTMENT				

MW/LW

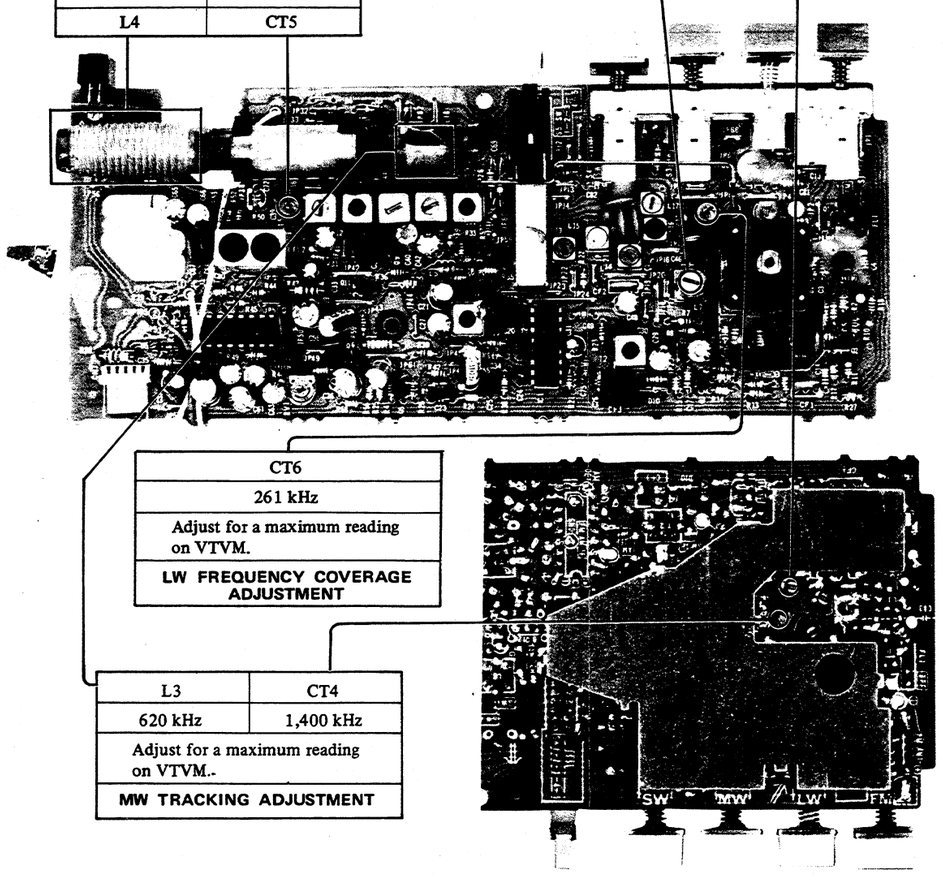




- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

LW TRACKING ADJUSTMENT	
Adjust for maximum reading on VTVM.	
160 kHz	261 kHz
L4	CT5

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
520 kHz	1,650 kHz
L7	CT3



CT6
261 kHz
Adjust for a maximum reading on VTVM.
LW FREQUENCY COVERAGE ADJUSTMENT

L3	CT4
620 kHz	1,400 kHz
Adjust for a maximum reading on VTVM..	
MW TRACKING ADJUSTMENT	

4-1. MOUNTING DIAGRAM — Tuner Section —

— Conductor Side —

SECTION 4
DIAGRAMS

• SEMICONDUCTOR LEAD LAYOUTS (See page 40)

A	Q, IC	IC2 (6, 11, 8, 5, 9, 7, 12) IC1 (3, 4, 2, 1)
B	D	5, 7, 2 4, 1 3, 10, 6

【RADIO BOARD】

FM SIGNAL
A TO FUNCTION BOARD
RED WHT BLU YEL BLK
CNJ1
B TO JACK BOARD
CNP1
FL2 LOW-PASS FILTER
L4 LW
L3 MW
L3,4 MW/LW FERRITE-ROD ANT
S5 49m (SW1) 31m (SW2) 25m (SW3) 19m (SW4) 16m (SW5)
S4 SW ON OFF
S3 MW ON OFF
S2 (MUTE) LW
S1 FM ON OFF
L1 FM RF
FL1 B.P.F
L7 MW OSC
L14 SW2 OSC
L13 SW1 OSC
L15 SW3 OSC
L16 SW4 OSC
L17 SW5 OSC
FM OSC
SHIELD PLATE
TP2
12

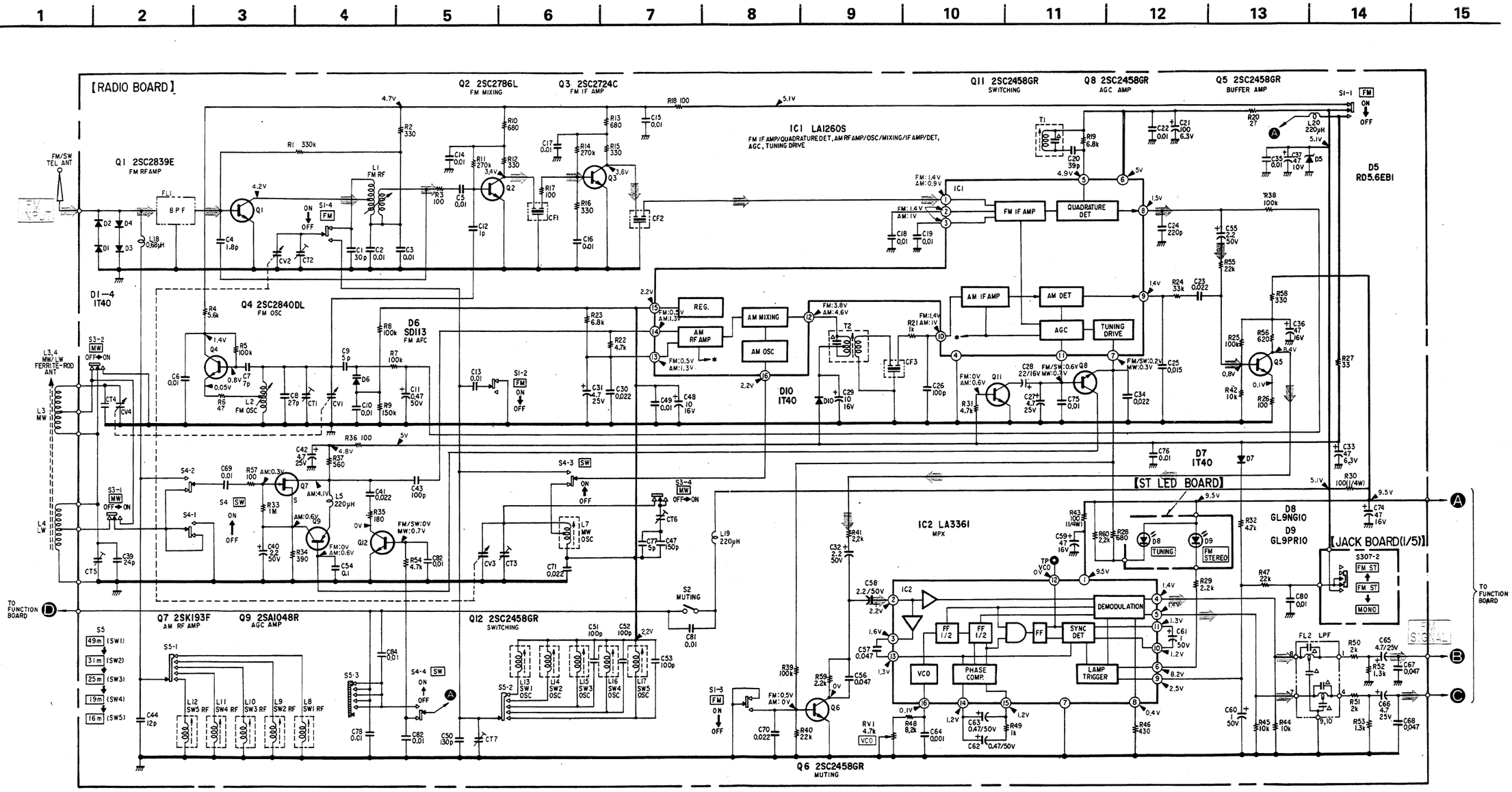
【ST LED BOARD】
D8 TUNING
D9 FM STEREO
11

【ANT TRANSLATION BOARD】
FM/SW TEL ANT
FM INPUT
11

Note:

- ○— : parts extracted from the component side.
- ⬚ : indicates side identified with part number.
- ▒ : B + pattern
- —▶— : signal path
- —▶— : L-CH signal path
- —▶— : R-CH signal path

4-2. SCHEMATIC DIAGRAM – TUNER SECTION –



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6 W unless otherwise noted. kΩ: 1000 Ω, MΩ: 1000 kΩ
- △ : internal component.
- ▭ : adjustment for repair.
- ▬ : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM.

- Switch

Ref. No.	Switch	Position
S1	FM	ON
S2	MUTE	OFF
S4	SW	OFF
S5	SW BAND SELECT	SW1

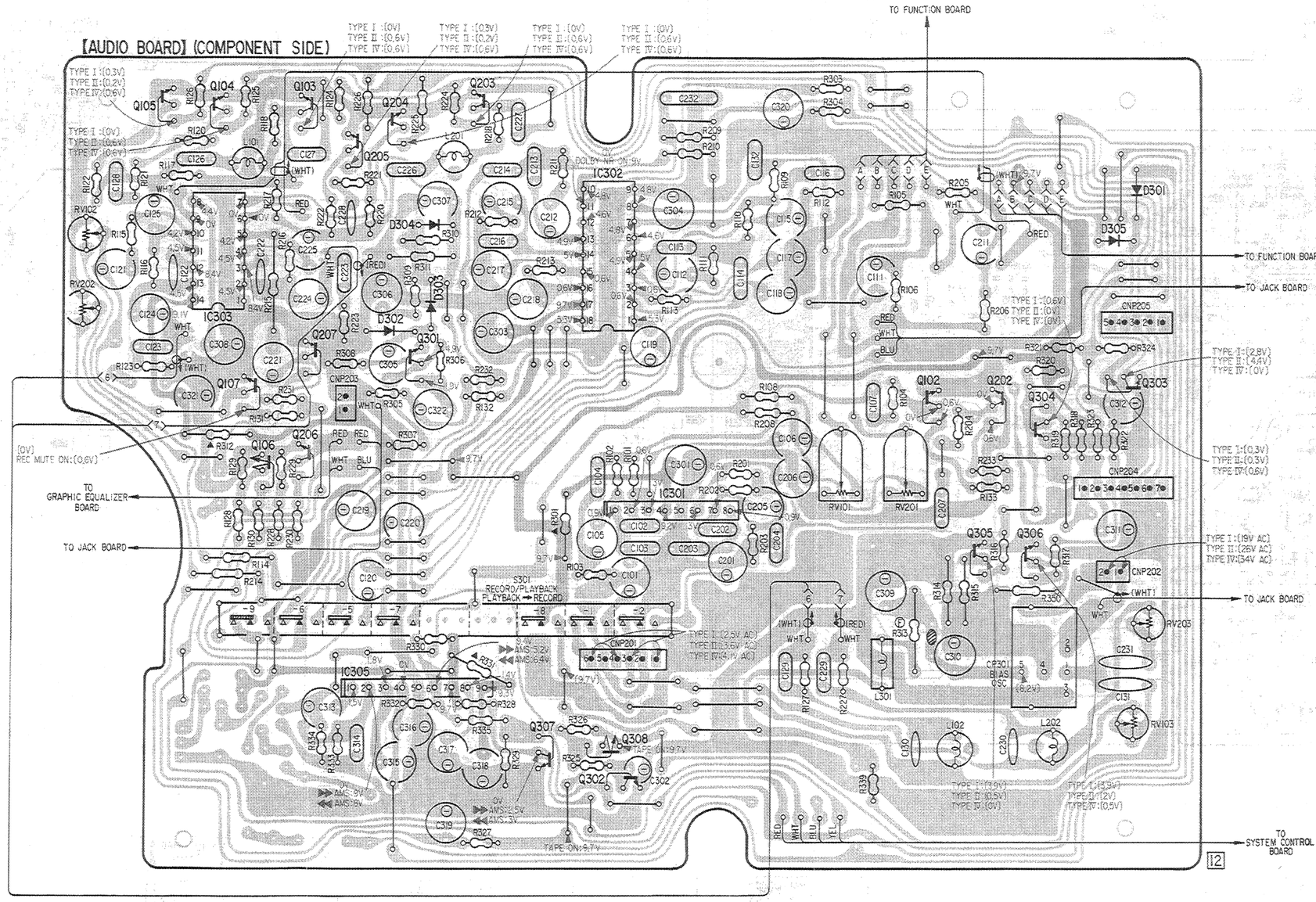
- ➡ : signal path.

Note: Voltages are measured with a VOM (50kΩ/V).

4-3. MOUNTING DIAGRAM – AUDIO BOARD –

–Component Side –

【AUDIO BOARD】(COMPONENT SIDE)

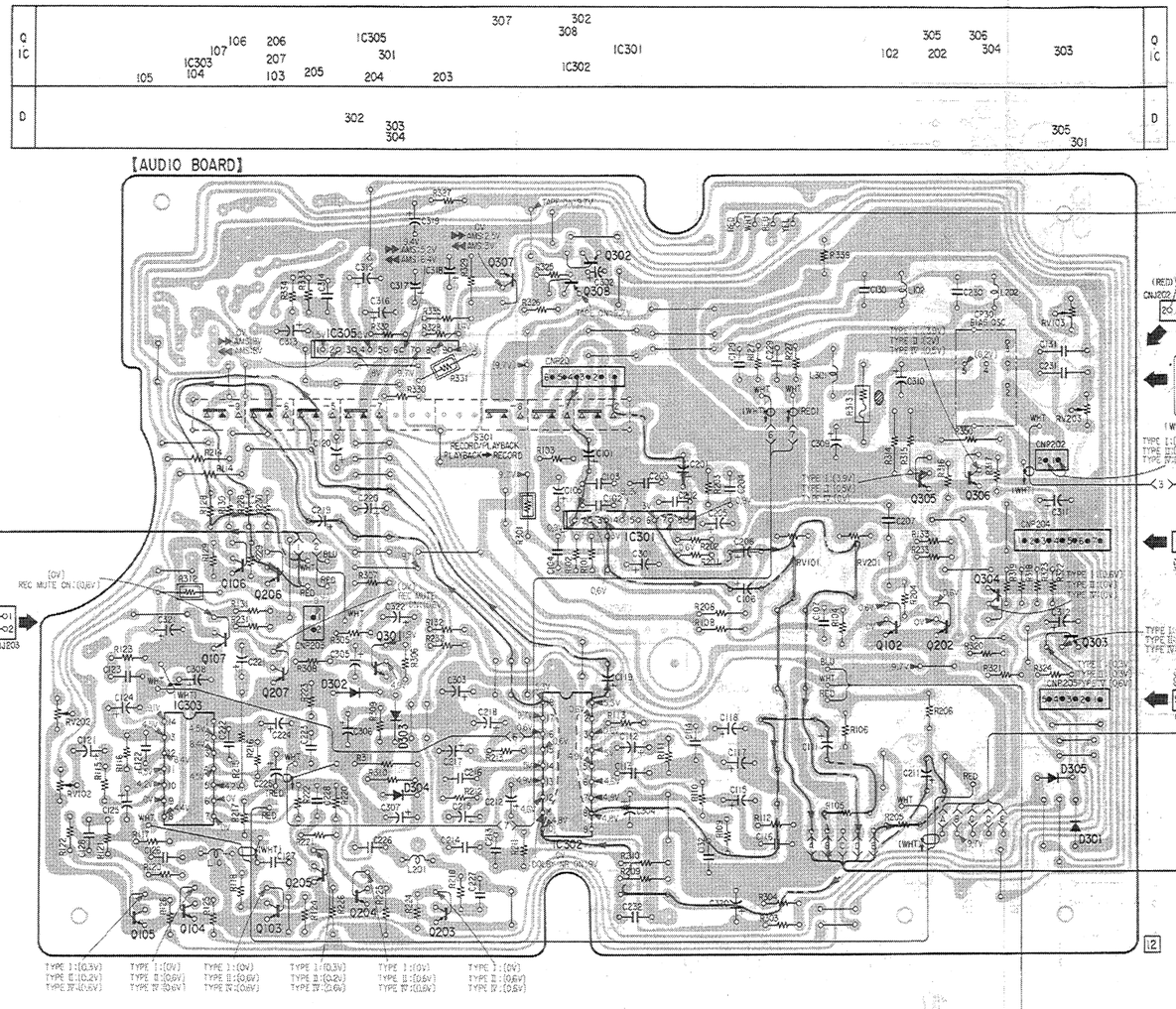


| | | |

4-4. MOUNTING DIAGRAM – AUDIO/SYSTEM CONTROL/POWER SUPPLY SECTION –

– Conductor Side –

● SEMICONDUCTOR LEAD LAYOUTS (See page 40)

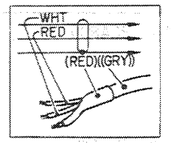


15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

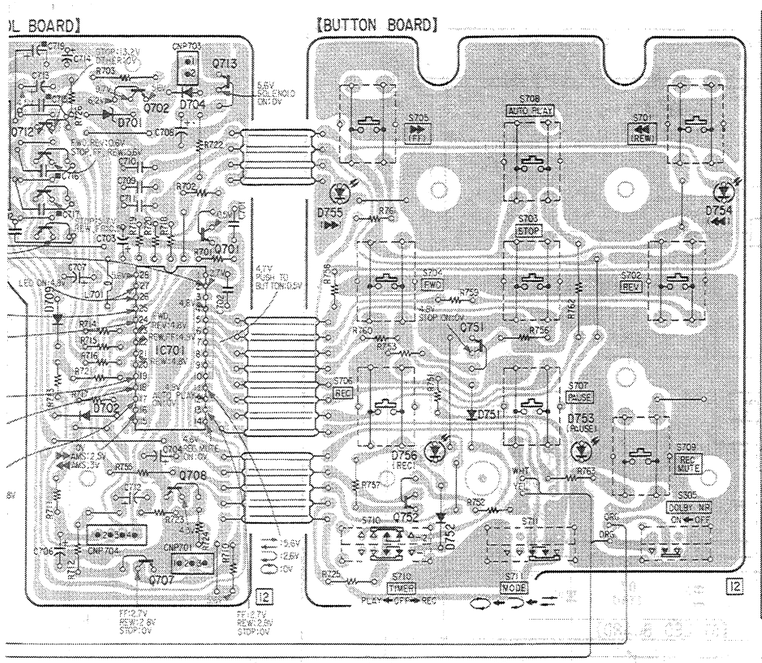
A B C D E F G H I J

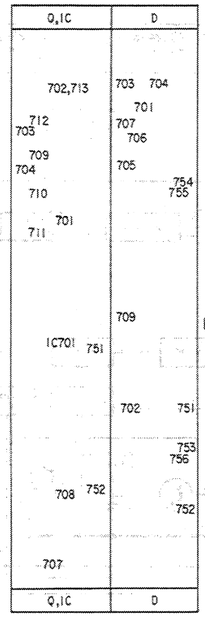
Note:

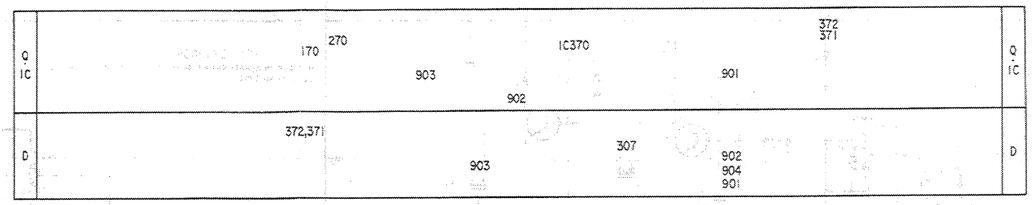
- Color code of sleeving over the end of the jacket.

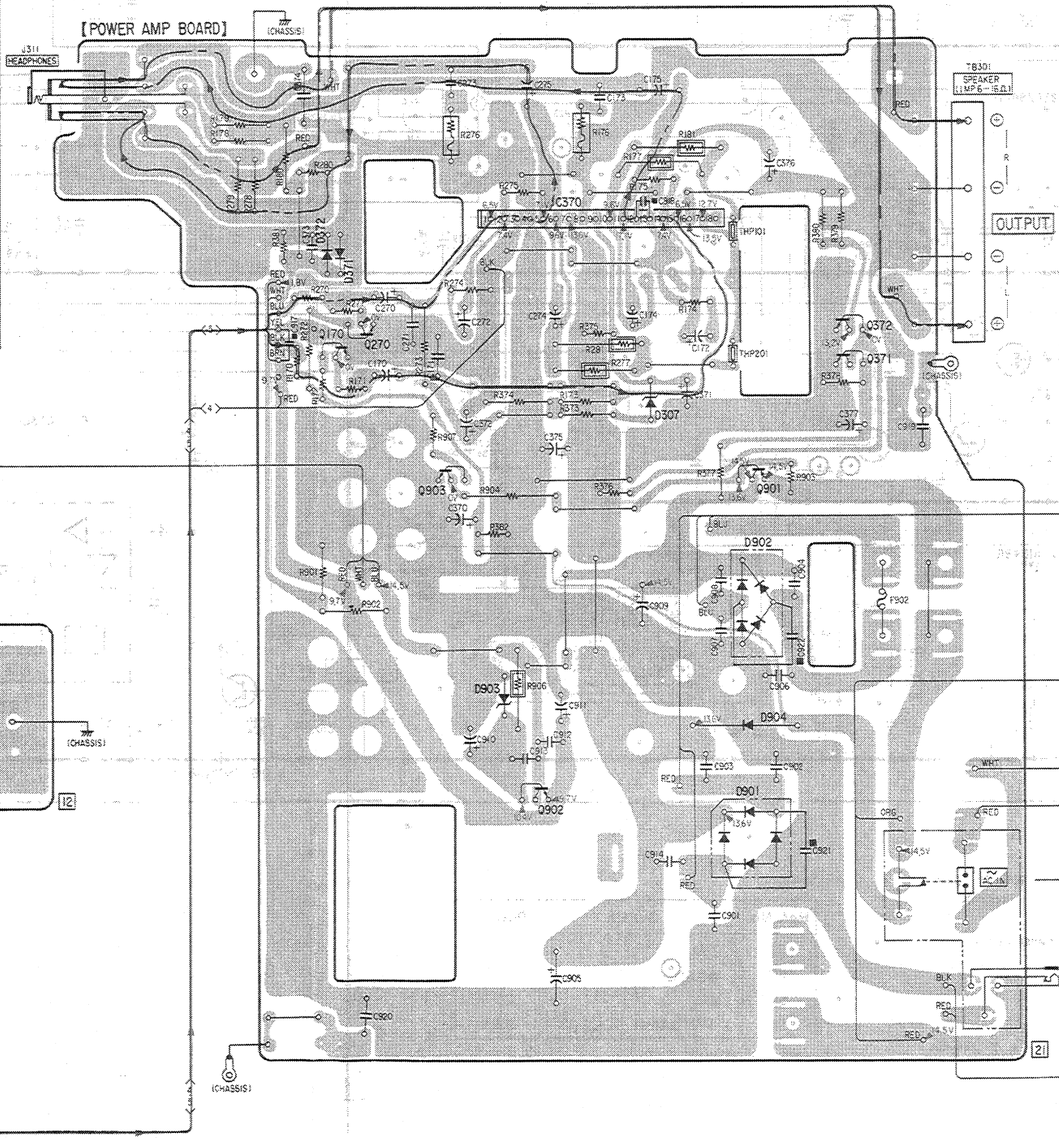


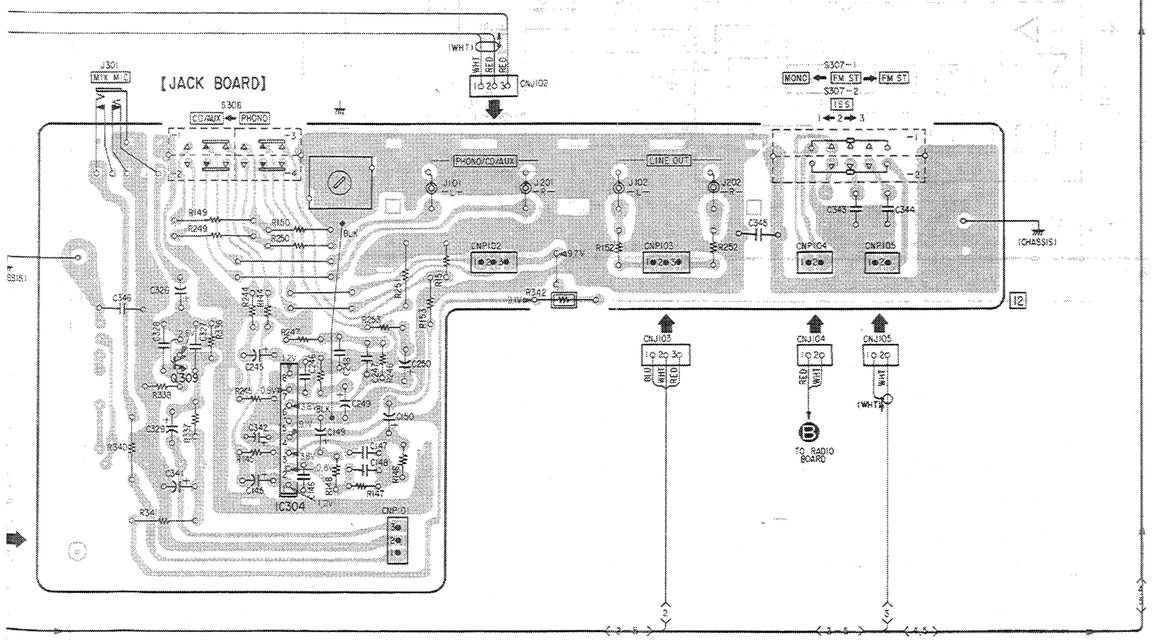
- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ▒ : B + pattern
- ▬▶ : signal path
- ▬▶ : L-CH signal path
- ▬▶ : R-CH signal path



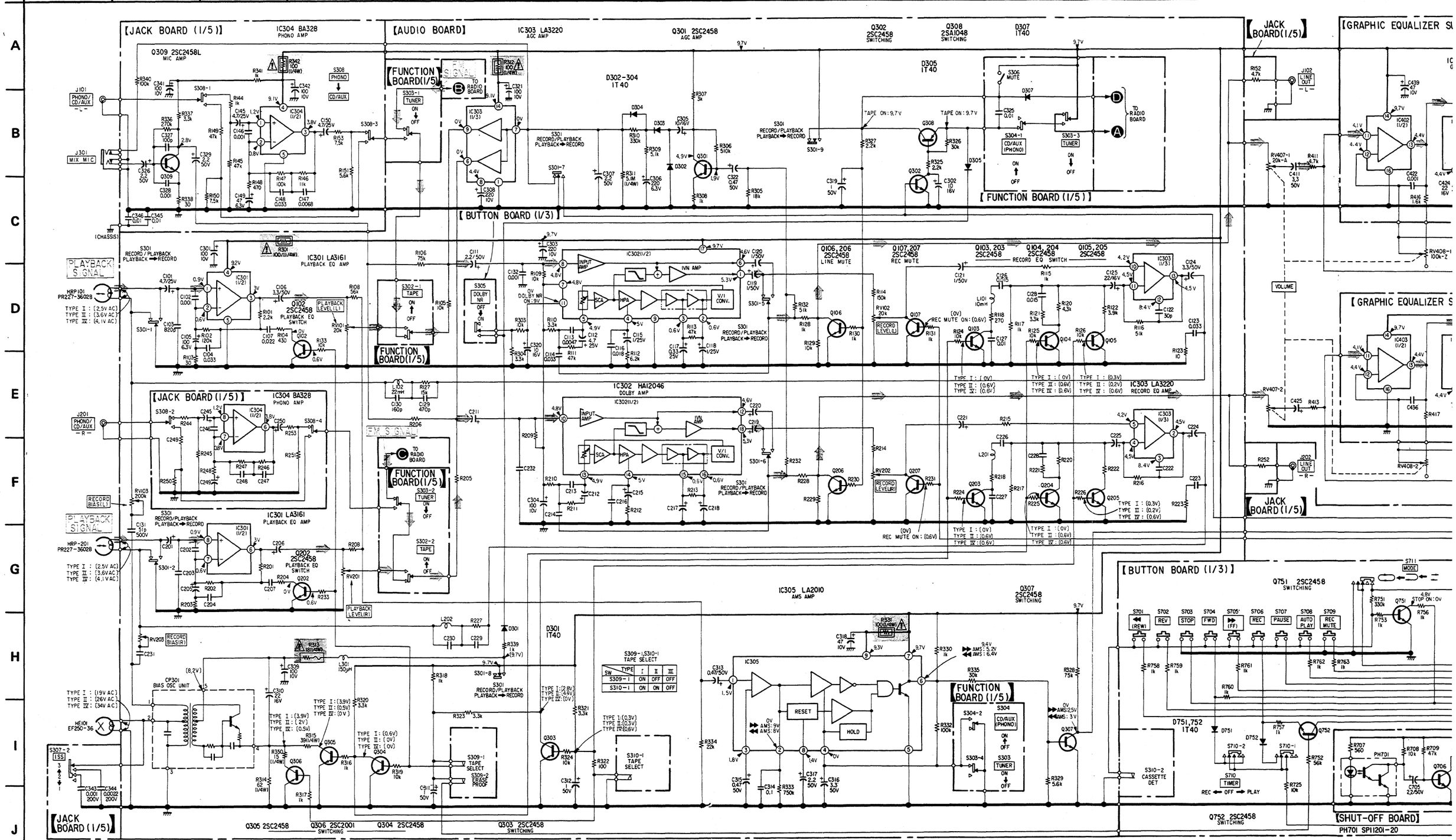








4-5. SCHEMATIC DIAGRAM – AUDIO/SYSTEM CONTROL/POWER SUPPLY SECTION –



12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

Note: The components identified ⚠ are critical for safety. part number specified.

Note: Voltages are measured

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Sony-Wega-Service
Uhlandstraße 122
1000 Berlin 31

[JACK BOARD(1/5)]

[GRAPHIC EQUALIZER SUB BOARD(1/2)]

[GRAPHIC EQUALIZER BOARD]

[GRAPHIC EQUALIZER SUB BOARD (1/2)]

[JACK BOARD (1/5)]

[POWER AMP BOARD]

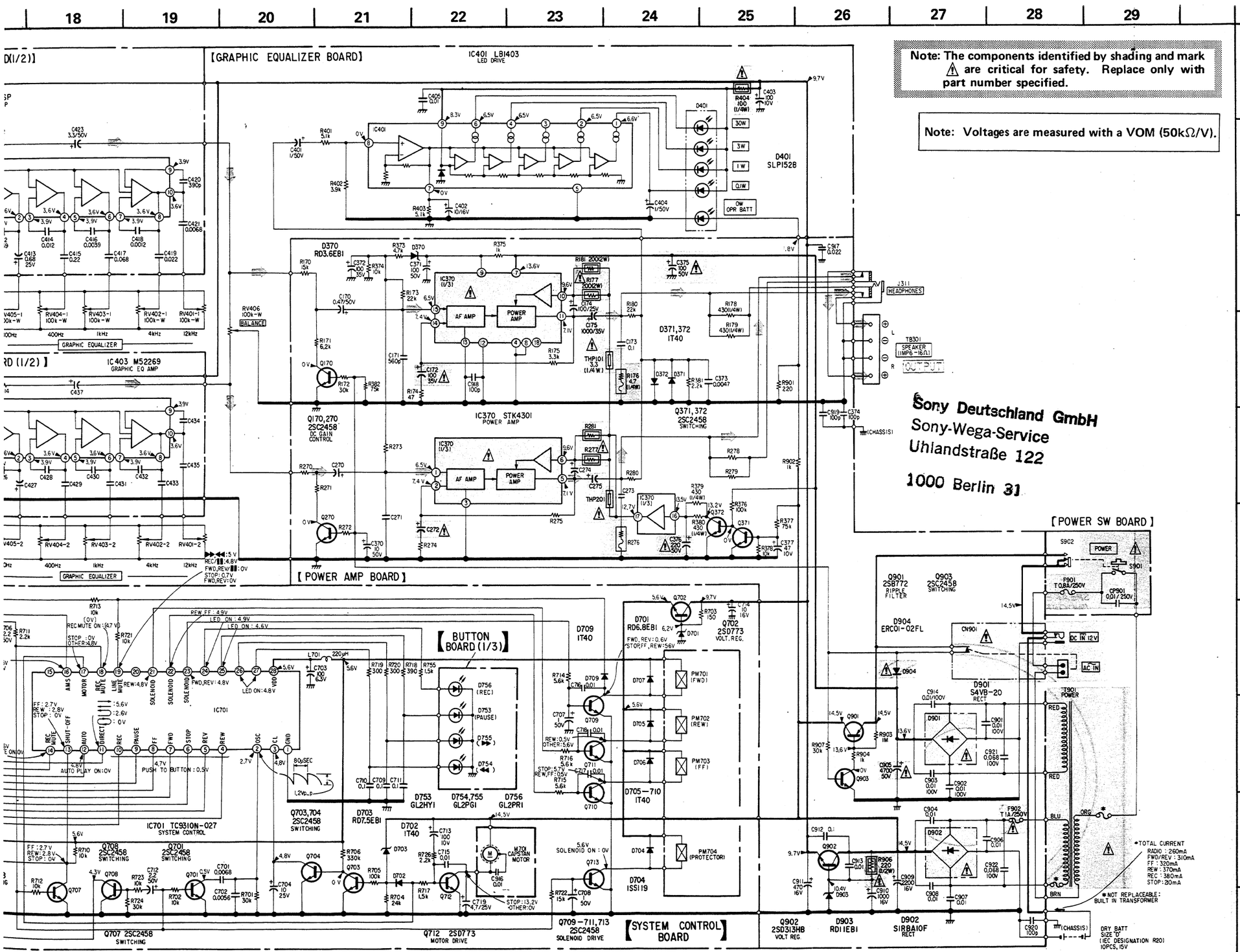
[BUTTON BOARD (1/3)]

[BUTTON BOARD (1/3)]

[SHUT-OFF BOARD]

[SYSTEM CONTROL BOARD]

[POWER



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Voltages are measured with a VOM (50kΩ/V).

Sony Deutschland GmbH
Sony-Wega-Service
Uhlandstraße 122
1000 Berlin 31

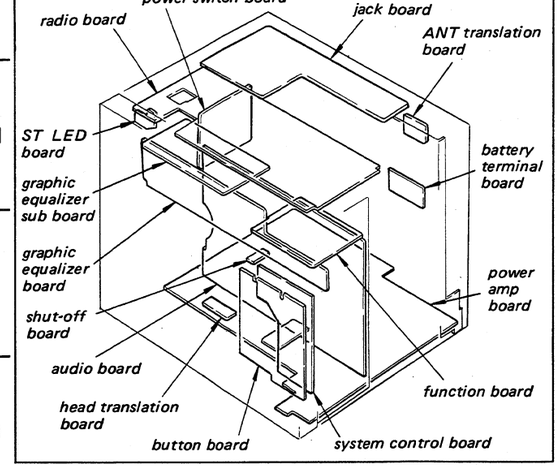
Note:

- Components for right channel have same values as for left channel.
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6 W unless otherwise noted. kΩ: 1000 Ω, MΩ: 1000 kΩ
- ⏦ : nonflammable resistor.
- ▭ : adjustment for repair.
- ▬ : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM.
  [ ] : record mode
- Switch

Ref. No.	Switch	Position
S301	record/playback	playback
S302	TAPE	OFF
S303	TUNER	ON
S304	CD/AUX	OFF
S305	DOBLY NR	OFF
S306	muting	OFF
S307-1	FM MODE	ST
S307-2	ISS	2
S308	PHONO/CD/AUX	PHONO
S309-1	tape select	OFF
S309-2	erase proof	OFF
S310-1	tape select	OFF
S310-2	cassette det	OFF
S701	REW	OFF
S702	REV	OFF
S803	STOP	OFF
S704	FEW	OFF
S705	FF	OFF
S706	REC	OFF
S707	PAUSE	OFF
S708	AUTO PLAY	OFF
S709	REC MUTE	OFF
S710	TIMER	OFF
S711	MODE	⇄
S901, S902	POWER	OFF

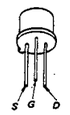
- ➡ : signal path.

CIRCUIT BOARD LOCATION



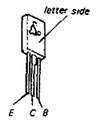
- Semiconductor Lead Layouts

2SA1048
2SC2458
2SC2724-C
2SC2786-L
2SC2839
2SC2840-DL



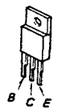
2SA1175

2SB772



2SC2001
2SD788

2SD313HP

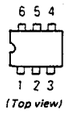


2SD773

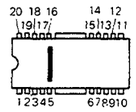
2SK193

BA328
LA2010
LA3161
LB1403N

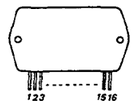
HA12046
LA1260S
LA3220
LA3361
TC9310N-027



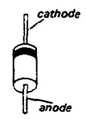
M5226P



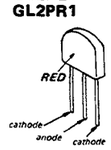
STK4301



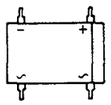
1S2687S-1
1SS119
RD3.6EB1
RD5.6EB1
RD6.8EB1
RD7.5EB1
RD11EB1T
30D4



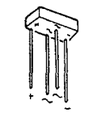
GL2HY1
GL2PG1
GL2PR1



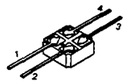
GL9NG10
GL9PR10



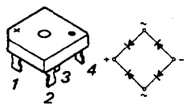
S1RBA10



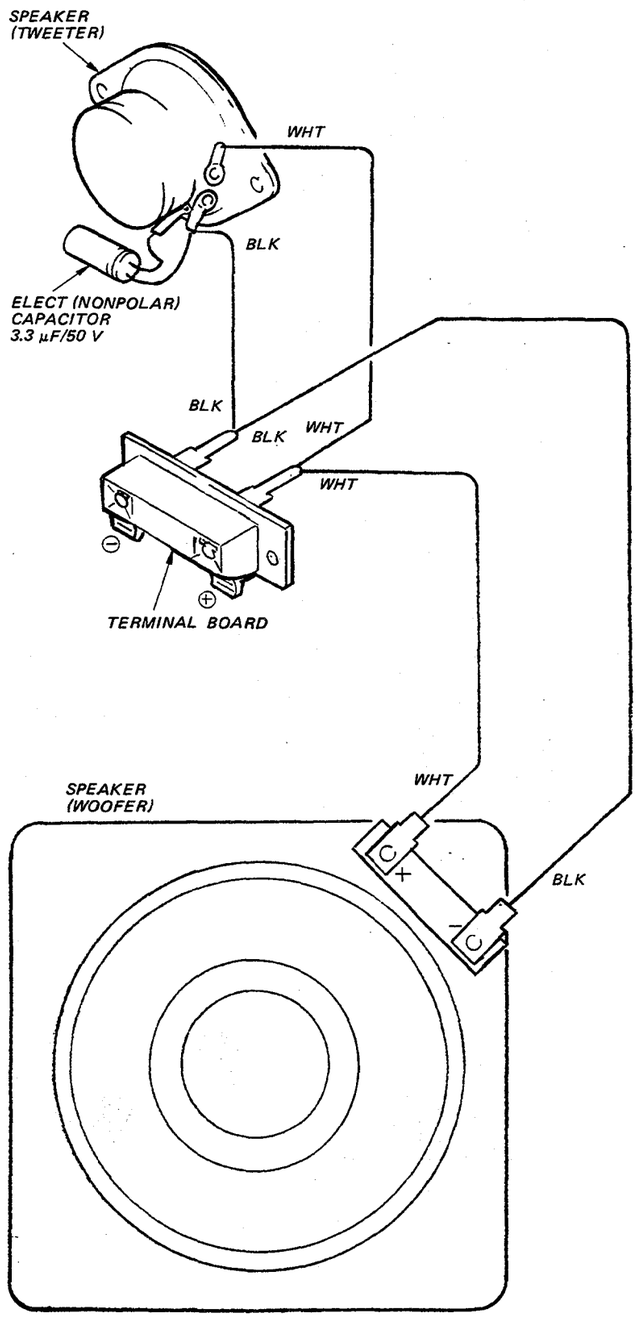
SLP152B-50



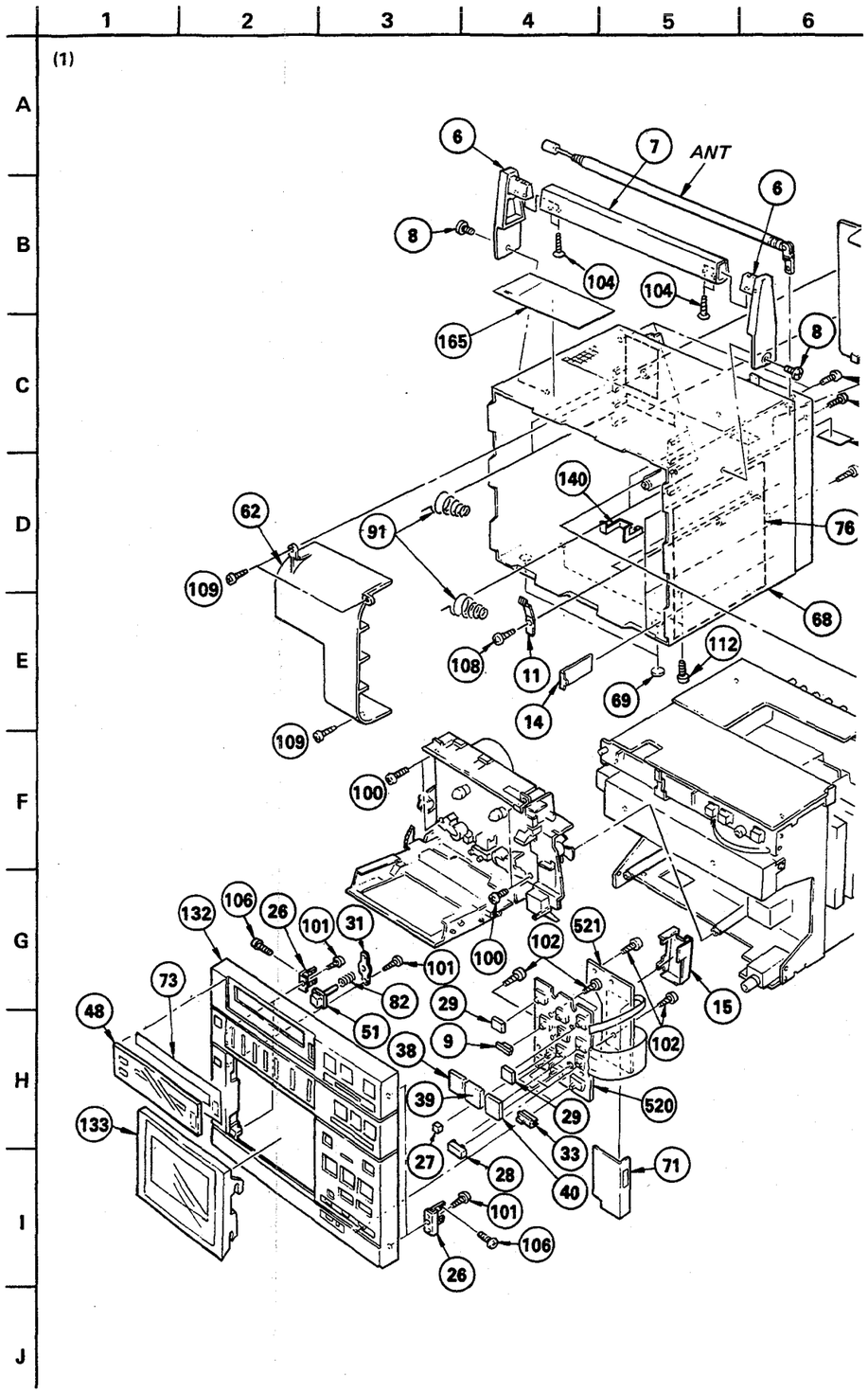
S4VB40

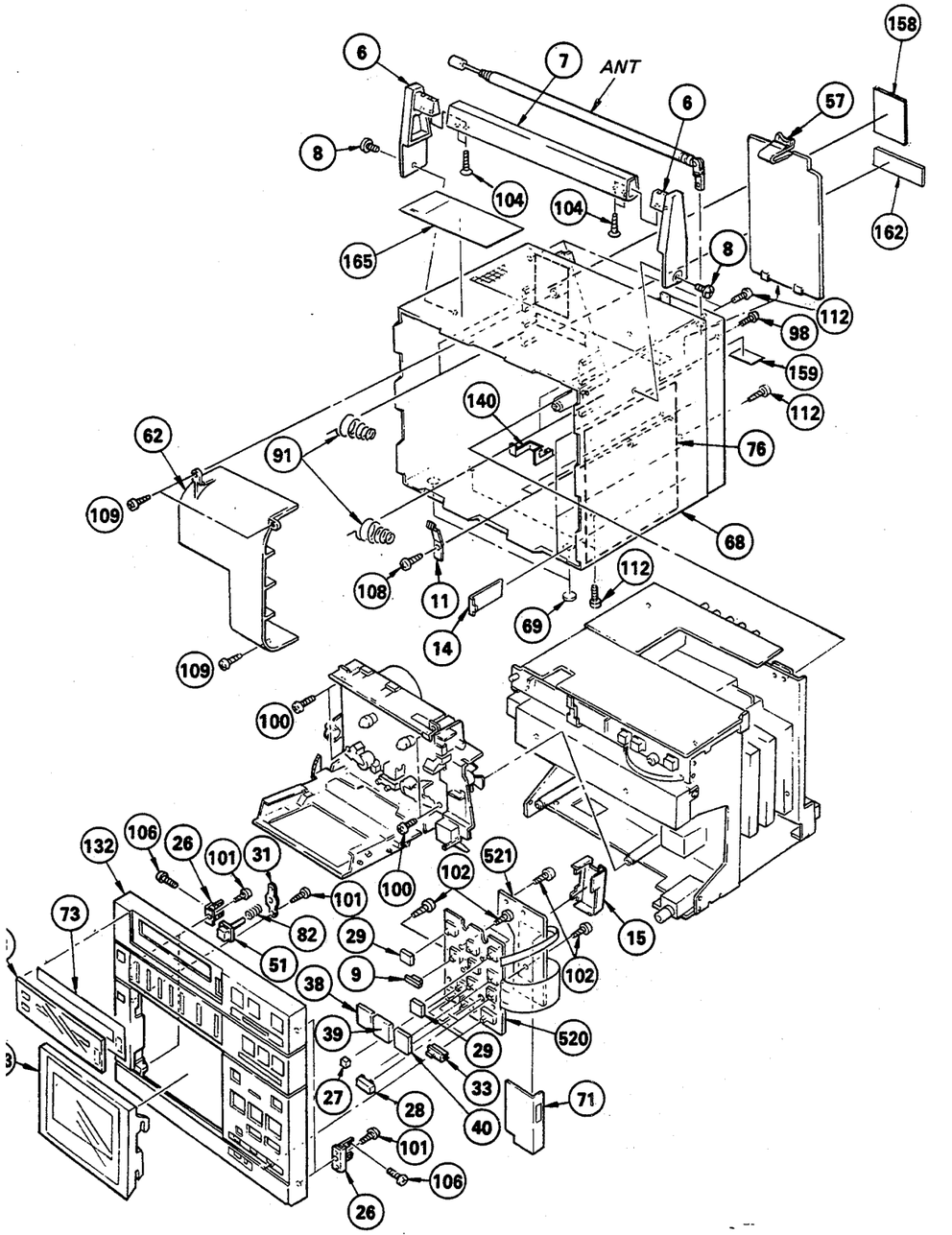


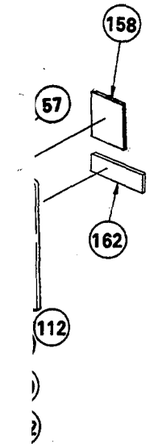
4-6. SPEAKER WIRING

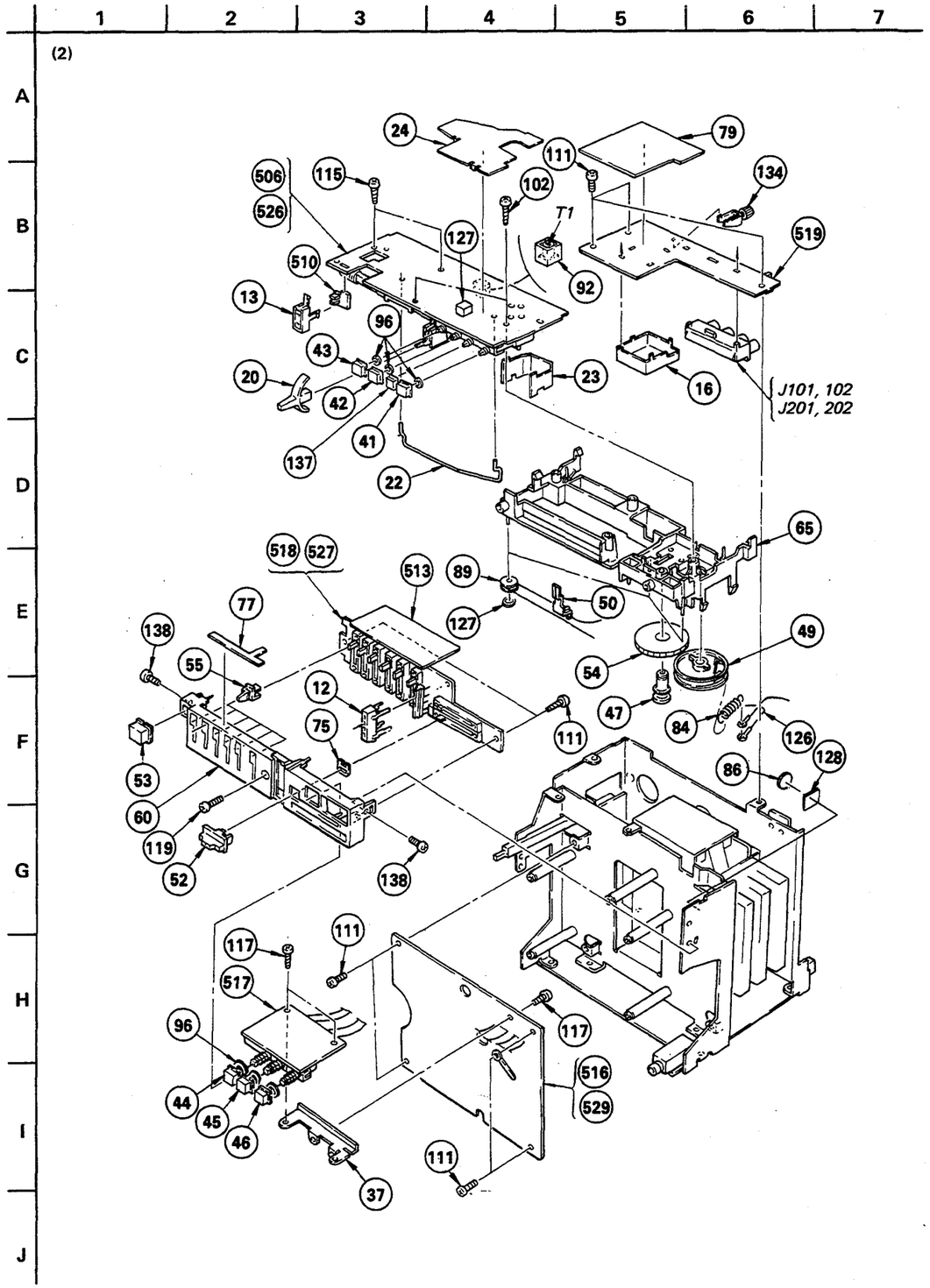


SECTION 5
EXPLODED VIEWS AND PARTS LIST




ANT
J101, 102
J201, 202


158
57
162
112


(2)
1 2 3 4 5 6 7
A B C D E F G H I J
24
111
79
506
526
115
102
134
T1
127
519
510
92
13
96
43
20
42
23
16
J101, 102
J201, 202
137
41
22
65
518
527
513
89
50
77
127
49
138
55
12
54
75
47
84
126
128
111
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60
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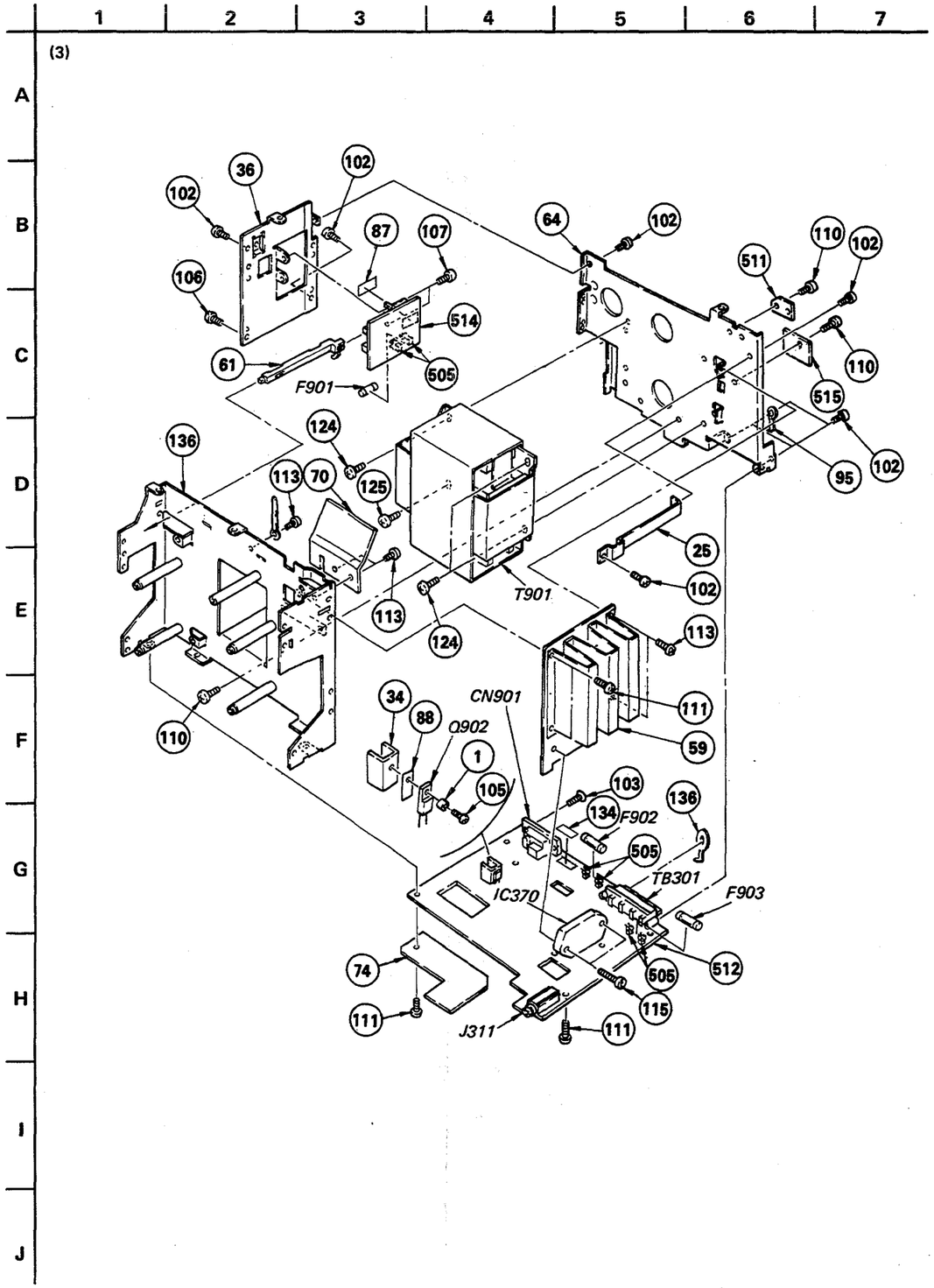
52
138
117
111
517
96
117
516
529
44
45
46
111
37


(3)
1 2 3 4 5 6 7
A B C D E F G H I J
102
36
102
64
102
87
107
106
514
511
110
102
61
505
110
F901
515
124
136
113
70
125
95
102
25
T901
102
113
124
113
111
34
CN901
88
Q902
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1
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F902
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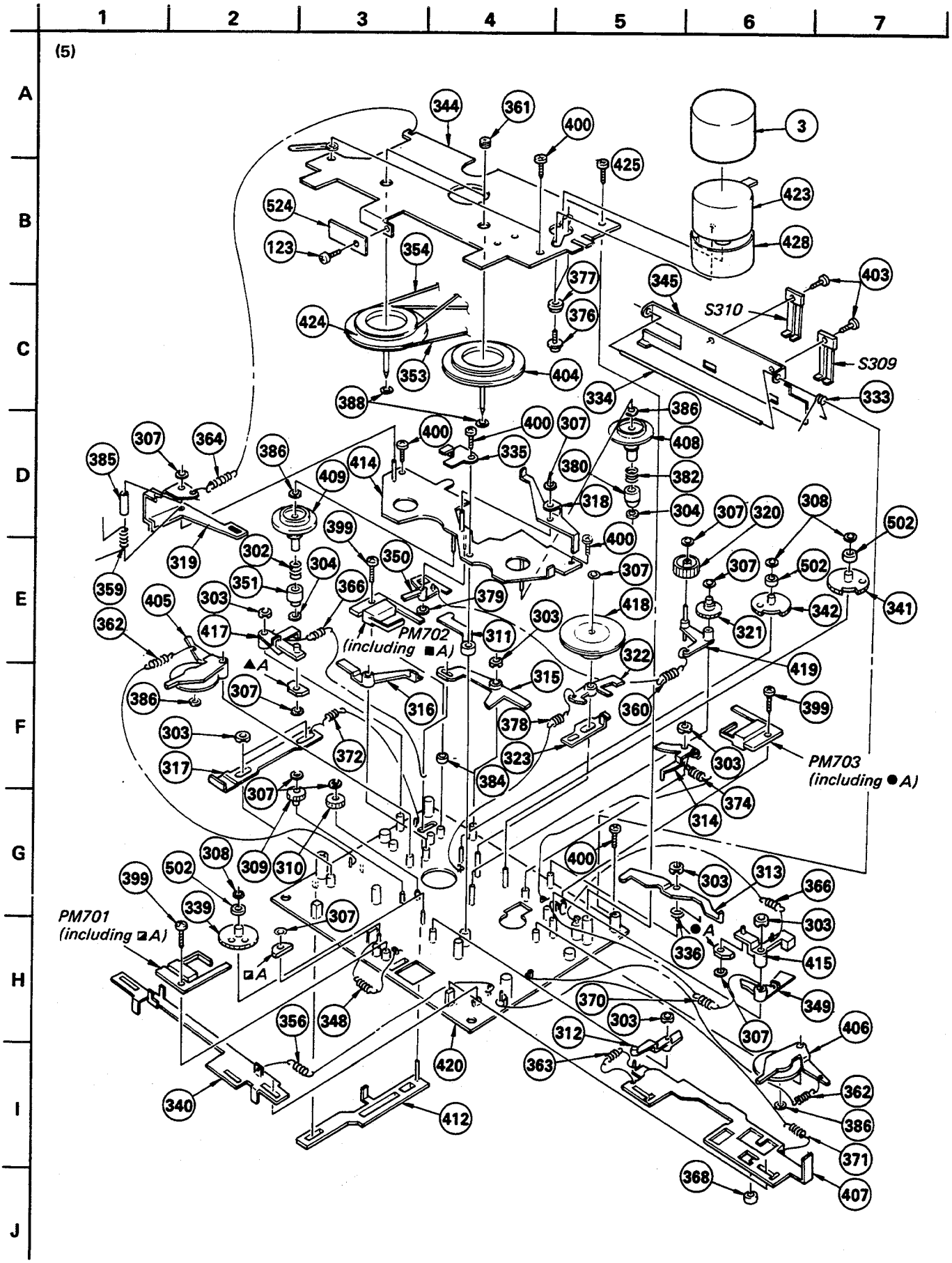
F903
74
505
512
111
J311
115
111


1
2
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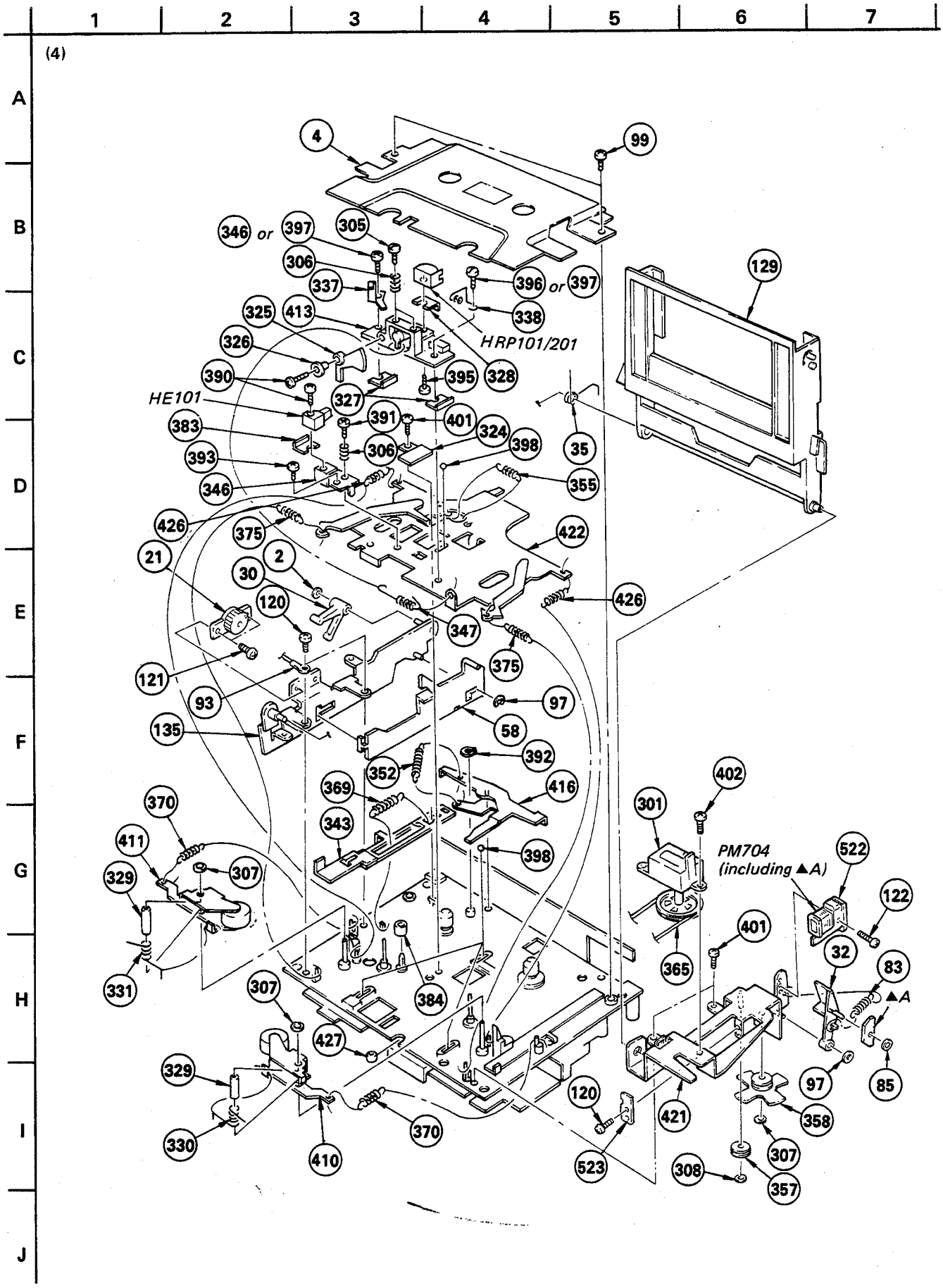
4
5
6
7
A
B
C
D
E
F
G
H
I
J
(5)
PM701 (including ◪A)
PM702 (including ■A)
PM703 (including ●A)
S309
S310
▲A
◪A
■A
●A


1
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3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
(4)
4
99
346 or
397
305
306
337
396 or 397
338
325
413
326
HRP101/201
129
390
395
328
HE101
327
391
401
324
383
306
398
35
393
346
355
426
375
422
21
2
30
120
426
347
375
121
93
97
135
58
392
352
369
416
370
343
398
411
307
329
331
307
384
427
329
330
410
370
120
523
421
358
307
308
357
402
301
PM704
(including ▲A)
522
122
401
365
32
83
▲A
97
85

GENERAL SECTION

No.	Part No.	Description
1	2-832-007-00	BUSHING (K), INSULATING
2	3-314-549-00	WASHER (E-2.3), NYLON
3	*3-319-836-00	PLATE, SHIELD, MOTOR
4	*3-319-201-01	COVER, MD
5	3-319-204-01	SCREW (A), ORNAMENTAL
6	3-319-205-01	PLATE, SIDE, HANDLE
7	3-319-206-01	(BLACK)....HANDLE
7	3-319-206-11	(SILVER)...HANDLE
8	3-319-207-01	SCREW, ORNAMENTAL, HANDLE
9	3-319-209-01	BUTTON, AUTO PLAY
10	.....	
11	3-319-211-01	SPRING
12	3-319-212-01	HOLDER, METER
13	3-319-213-01	HOLDER, LED
14	3-319-215-01	TERMINAL BOARD
15	*3-319-216-01	PLATE, SHIELD, SYSTEM CONTROL
16	*3-319-217-01	PLATE (A), SHIELD
17	.....	
18	.....	
19	*3-319-221-01	REINFORCEMENT
20	3-319-222-01	KNOB, LEVER
21	3-319-224-01	DAMPER, SMALL
22	*3-319-225-01	WIRE, CONDUCTOR
23	*3-319-226-01	PLATE (A), SHIELD, TUNER
24	*3-319-227-01	PLATE (B), SHIELD, TUNER
25	*3-319-230-01	BRACKET (A), REAR CABINET
26	*3-319-233-01	BRACKET, CABINET
27	3-319-235-01	BUTTON, REC/MUTE
28	3-319-236-01	BUTTON, PAUSE
29	3-319-237-01	BUTTON, FF/REW
30	3-319-240-01	LEVER, CONVERSION
31	*3-319-241-01	GUIDE, BUTTON
32	3-319-242-01	LEVER, PROTECTION
33	3-319-243-01	(BLACK)....KNOB, SLIDE
33	3-319-243-21	(SILVER)...KNOB, SLIDE
34	*3-319-244-01	HEAT SINK, REGULATOR
35	3-319-246-01	SPRING
36	*3-319-247-01	BRACKET, SIDE
37	*3-319-248-01	BRACKET, FUNCTION
38	3-319-251-01	BUTTON, REV
39	3-319-251-11	BUTTON, STOP
40	3-319-251-21	BUTTON, FWD
41	3-319-252-01	BUTTON, FUNCTION (FM)
42	3-319-252-21	BUTTON, FUNCTION (MW)
43	3-319-252-41	BUTTON, FUNCTION (SW)

GENERAL SECTION

No.	Part No.	Description
44	3-319-252-51	BUTTON, FUNCTION (TAPE)
45	3-319-252-61	BUTTON, FUNCTION (TUNER)
46	3-319-252-71	BUTTON, FUNCTION (CD/AUX)
47	3-319-253-01	SHAFT, TUNING
48	.....	
49	3-319-256-01	DRUM, DIAL
50	3-319-260-01	POINTER
51	3-319-261-01	BUTTON, EJECT
52	3-319-262-01	(BLACK)....KNOB, CONTROL
52	3-319-262-11	(SILVER)...KNOB, CONTROL
53	3-319-263-01	BUTTON, POWER
54	3-319-264-01	(BLACK)....KNOB, TUNING
54	3-319-264-11	(SILVER)...KNOB, TUNING
55	3-319-265-01	KNOB, EQUALIZER
56	3-319-266-01	(BLACK)....CLAW, SPK LOCK
56	3-319-266-11	(SLIVER)...CLAW, SPK LOCK
57	3-319-268-01	(BLACK)....LID, BATTERY CASE
57	3-319-268-11	(SILVER)...LID, BATTERY CASE
58	3-319-271-01	LEVER, EJECT
59	*3-319-272-01	HEAT SINK, POWER
60	*3-319-274-01	CHASSIS, EQUALIZER
61	3-319-275-01	LEVER, POWER
62	3-319-276-01	(BLACK)....CASE, BATTERY
62	3-319-276-11	(SILVER)...CASE, BATTERY
63	3-319-277-01	(BLACK)....BOARD, BAFFLE, SPEAKER
63	3-319-277-11	(SILVER)...BOARD, BAFFLE, SPEAKER
64	*3-319-278-01	CHASSIS, REAR
65	3-319-280-01	CHASSIS, TUNER
66	3-319-281-01	(BLACK)....BOX, SPEAKER (RIGHT)
66	3-319-281-21	(SILVER)...BOX, SPEAKER (RIGHT)
67	3-319-281-11	(BLACK)....BOX, SPEAKER (LEFT)
67	3-319-281-31	(SLIVER)...BOX, SPEAKER (LEFT)
68	3-319-283-11	(SILVER)...CABINET (MAIN)
68	3-319-283-31	(BLACK)....CABINET (MAIN)
69	3-319-288-01	FOOT
70	*3-319-290-01	PLATE, HEAT INSULATING, TU
71	*3-319-292-01	PLATE (REAR), SHIELD, SC
72	3-319-294-01	NET, DUCT
73	.....	
74	*3-319-806-01	PLATE (E), SHIELD
75	3-319-807-01	PLATE, JOINT, CONTROL
76	3-319-808-01	LABEL, ARRANGEMENT
77	*3-319-809-01	PLATE (F), SHIELD
78	3-319-810-01	LABEL, SPEAKER

NOTE:

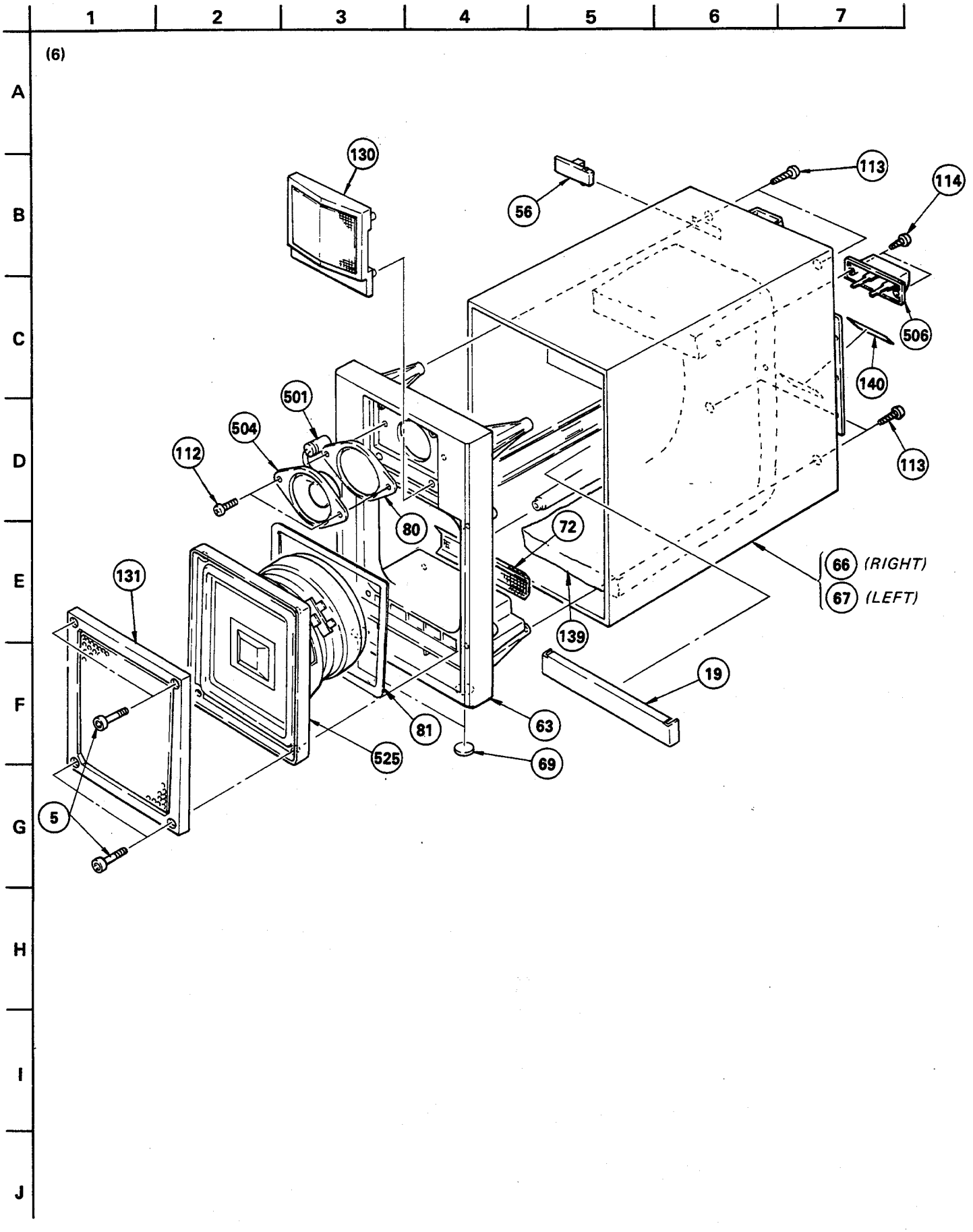
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···


1
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D
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F
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H
I
J
(6)
130
56
113
114
506
140
113
501
504
112
80
72
66 (RIGHT)
67 (LEFT)
131
139
19
81
63
525
69
5

MECHANISM SECTION

No.	Part No.	Description
301	1-548-564-51	COUNTER, TAPE (SMALL TYPE)
302	3-306-302-00	SPRING, COMPRESSION
303	3-307-390-00	BUSHING, LOADING SPRING
304	3-307-394-00	RETAINER (B), THRUST
305	3-307-448-00	SCREW, ADJUSTMENT, AZIMUTH
306	3-307-460-00	SPRING, COMPRESSION
307	3-307-948-01	WASHER, NYLON
308	3-307-948-11	WASHER, NYLON
309	3-313-708-00	GEAR, DECELERATION
310	3-313-709-00	GEAR, REVERSE
311	3-313-710-00	LEVER, FWD
312	3-313-713-00	LEVER, NR
313	3-313-716-00	LEVER, FF
314	3-313-718-00	LEVER, REC TRIGGER
315	3-313-720-00	LEVER, REW
316	3-313-723-00	LEVER, NR TRIGGER
317	*3-313-724-00	SLIDER, NR TRIGGER
318	3-313-733-00	LEVER (A), REC
319	3-313-734-00	LEVER (B), REC
320	3-313-744-00	GEAR, FR
321	3-313-745-00	GEAR, REW
322	3-313-746-00	LEVER, AMS LOCK
323	*3-313-747-00	SLIDER, GEAR RELEASE
324	3-313-749-00	SPRING, LEAF
325	3-313-755-00	GEAR, FAN MOLD
326	3-313-756-00	COLLAR (G)
327	3-313-757-01	SEAM (F), HEAD
327	3-313-757-11	SEAM (F), HEAD
327	3-313-757-21	SEAM (F), HEAD
328	3-313-758-01	SEAM (M), HEAD
328	3-313-758-11	SEAM (M), HEAD
328	3-313-758-21	SEAM (M), HEAD
329	3-313-759-01	COLLAR (P)
330	3-313-762-01	SPRING (N)
330	3-313-762-11	SPRING (N)
330	3-313-762-21	SPRING (N)
331	3-313-763-11	SPRING (R)
331	3-313-763-11	SPRING (R)
331	3-313-763-11	SPRING (R)
332	.....	
333	3-313-784-00	SPRING
334	*3-313-785-00	SHAFT, DETECTION LEVER
335	*3-313-786-00	RETAINER, SLIDER
336	3-313-787-00	SPRING
337	*3-313-790-00	CLAMP

MECHANISM SECTION

No.	Part No.	Description
338	3-313-791-00	CLAMP
339	3-313-792-00	GEAR, FWD CAM
340	*3-313-794-00	SLIDER (B), NR
341	3-313-795-00	GEAR, FF CAM
342	3-313-796-00	GEAR, REW CAM
343	3-313-798-00	SLIDER (R), PAUSE
344	*3-313-800-00	RETAINER, THRUST
345	*3-313-803-00	LEVER, DETECTION
346	3-313-806-00	BRACKET, E HEAD
347	3-313-807-00	SPRING (POWER TENSION),TENSION
348	3-313-808-00	SPRING, TENSION
349	3-313-811-00	BRAKE (S)
350	3-313-812-00	BRAKE (T)
351	3-313-814-00	CLAW (T), REEL
352	3-313-815-00	SPRING, TENSION
353	3-313-816-00	BELT, SQUARE (71X1.3)
354	3-313-823-00	BELT, SQUARE (55.6X1.3)
355	3-313-824-00	SPRING, TENSION
356	3-313-849-00	SPRING, TENSION
357	3-313-836-01	PULLEY (A)
358	3-313-837-01	PULLEY (B)
359	3-313-847-01	SPRING
360	3-472-222-XX	SPRING, TENSION
361	3-489-073-00	SCREW, THRUST
362	3-507-111-00	SPRING, TENSION
363	3-515-167-00	SPRING, TENSION
364	3-533-223-00	SPRING, TENSION
365	3-533-547-XX	BELT, SQUARE
366	3-534-558-00	SPRING, TENSION
367	3-535-625-00	WASHER, HANDLE
368	3-538-051-00	RUBBER, BRAKE
369	3-539-234-00	SPRING, TENSION
370	3-542-475-00	SPRING, TENSION
371	3-542-481-00	SPRING, TENSION
372	3-545-542-00	SPRING, TENSION
373	.....	
374	3-547-668-00	SPRING, TENSION
375	3-313-850-00	SPRING, TENSION
376	3-570-027-00	SCREW, MOTOR
377	3-570-118-00	CUSHION, MOTOR
378	3-570-552-00	SPRING, TENSION
379	3-570-615-00	POLY-WASHER (DIA.1.2)
380	3-571-844-00	CRAW, REEL
381	3-571-850-00	SPRING, COMPRESSION
382	3-571-850-11	SPRING, COMPRESSION

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SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

GENERAL SECTION

No.	Part No.	Description
79	3-319-818-01	PLATE, SHIELD, JACK
80	3-319-832-01	CUSHION, TWEETER
81	3-319-833-01	CUSHION, WOOFER
82	3-434-052-00	SPRING, COMPRESSION
83	3-474-055-XX	SPRING, TENSION
84	3-515-170-00	SPRING, TENSION
85	3-558-708-01	WASHER, STOPPER
86	3-564-542-00	WASHER, FIBER
87	*3-701-948-13	LABEL, FUSE
88	3-703-207-00	INSULATOR, TO-220
89	3-817-114-00	PULLEY P8
90	3-831-441-XX	CUSHION
91	3-837-653-XX	SPRING
92	*3-887-524-00	PLATE, SHIELD
93	7-623-507-01	LUG, 2.6
94	7-623-508-01	LUG, 3
95	7-623-510-01	LUG, 4
96	7-623-955-01	WASHER 4.0, FIBER
97	7-624-105-04	STOP RING 2.3, TYPE -E
98	7-682-149-09	SCREW +P 3X10
99	7-685-105-14	TAPPING +P 2X8 NON-SLIT
100	7-685-145-24	SCREW +BTP 3X6 TYPE2 N-S
101	7-685-146-21	SCREW +P 3X8 TYPE2 SLIT
102	7-685-147-19	SCREW +BTP 3X10 TYPE2 N-S
103	7-685-247-29	SCREW +KTP 3X10 TYPE2 SLIT
104	7-685-346-29	SCREW +RKTP 3X8 TYPE2 SLIT
105	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S
106	7-685-544-19	SCREW +BTP 3X5 TYPE2 N-S
107	7-685-645-11	SCREW +BVTP 3X6 TYPE2 N-S
108	7-685-645-71	SCREW +BVTP 3X6 TYPE2 IT-3
109	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3
110	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S
111	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3
112	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3
113	7-685-648-19	SCREW +BVTP 3X12 TYPE2 N-S
114	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3
115	7-685-649-71	SCREW +BVTP 3X14 TYPE2 IT-3
116	7-685-650-11	SCREW +BVTP 3X16 TYPE2 N-S
117	7-685-750-01	SCREW +PTT 3X5 (S)
118	7-685-751-04	SCREW +PTT 3X6 (S)
119	7-685-752-01	SCREW +PTT 3X8 (S)
120	7-685-791-04	SCREW +PTT 2.6X5 (S)
121	7-685-851-01	SCREW +BVTT 2X4 (S)
122	7-685-855-01	+BVTT 2X10 (S)
123	7-685-862-01	SCREW +BVTT 2.6X6 (S)
124	7-685-880-01	SCREW +BVTT 4X6 (S)

GENERAL SECTION

No.	Part No.	Description
125	7-685-881-01	SCREW +BVTT 4X8 (S)
126	9-911-825-42	STRING, 0.5MM WHITE
127	9-911-840-XX	CUSHION
128	9-911-863-XX	SPACER
129	A-3235-324-A	HOLDER ASSY, CASSETTE
130	A-3239-216-A	ESCUTCHEON ASSY, TWEETER
131	A-3239-217-A	ESCUTCHEON ASSY, WOOFER
132	X-3319-214-2	(BLACK)....PANEA ASSY, FRONT
132	X-3319-214-1	(SILVER)...PANEA ASSY, FRONT
133	X-3319-208-1	(BLACK)....LID ASSY, CASSETTE
133	X-3319-208-2	(SILVER)...LID ASSY, CASSETTE
134	X-3302-801-0	BOARD ASSY, TERMINAL, GROUND
135	*X-3319-201-1	GUIDE ASSY, EJECT
136	*X-3319-203-1	CHASSIS ASSY, CENTER
137	3-319-252-11	BUTTON, FUNCTION (LW)
138	7-685-549-19	SCREW +BVTP 3X6
139	3-319-289-01	ABSORBENT, ACOUSTIC
140	*3-319-245-01	TERMINAL BOARD, ANTENNA
141	7-623-924-01	WASHER, STOPPER

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
151	1-551-218-00	CORD, POWER (DK-50)
152	1-557-652-11	CORD, CONNECTION (SPEAKER)
153	3-319-802-01	CUSHION (FRONT UPPER)
154	3-319-803-01	CUSHION (REAR UPPER)
155	3-319-804-01	CUSHION (LOWER)
156	3-319-805-01	INDIVIDUAL CARTON
157	3-319-812-01	CUSHION
158	3-319-813-01	LABEL, MODEL NUMBER (UK)
159	3-527-213-00	LABEL, SERIAL NUMBER
160	3-532-616-00	BAG, POLYETHYLENE
161	3-701-690-00	LABEL (MADE IN JAPAN)
162	*3-703-678-00	LABEL, CAUTION, NEW UL
163	3-773-856-11	MANUAL, INSTRUCTION
164	3-881-644-00	PEOTECTION BAG
165	4-884-927-00	LABEL (SYSTEM), CAUTION

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MECHANISM SECTION

No.	Part No.	Description
383	3-573-466-01	SPACER, HEAD (t=0.1)
383	3-573-466-11	SPACER, HEAD (t=0.2)
384	3-652-612-21	CUSHION (B)
385	3-657-841-81	SPACER (2X10)
386	3-701-437-01	WASHER
387	3-701-437-11	WASHER
388	3-701-438-11	WASHER, 2.5
389	3-831-441-11	SPACER
390	7-621-255-55	SCREW +P 2X8
391	7-621-772-20	SCREW +B 2X5
392	7-624-193-08	STOP RING 3, GRIP
393	7-627-553-17	SCREW +P 2X2
394	7-627-553-28	SCREW, PRECISION +P 2X2.5
395	7-627-554-58	SCREW +P 2X2.8
396	7-627-556-48	SCREW +P 2.6X4.5
397	7-628-254-05	SCREW +PS 2.6X5
398	7-671-111-11	STEEL, BALL 1.5MM
399	7-685-105-14	TPG +P 2X8, TYPE 2, NON-SLIT
400	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3
401	7-685-790-04	SCREW +BVTT 2.6X4 (S)
402	7-685-852-01	SCREW +BVTT 2X5 (S)
403	7-685-853-01	SCREW +BVTT 2X6 (S)
404	X-3313-703-0	FLYWHEEL ASSY
405	X-3313-705-0	LEVER (N) ASSY, IDLER
406	X-3313-706-0	LEVER (R) ASSY, IDLER
407	X-3313-707-0	SLIDER (A) ASSY, NR
408	X-3313-708-0	TABLE ASSY, REEL, SUPPLY
409	X-3313-709-0	TABLE ASSY, REEL, TAKE-UP
410	X-3313-710-0	PINCH LEVER (N) SUB ASSY
411	X-3313-711-0	PINCH LEVER (R) SUB ASSY
412	X-3313-712-0	SLIDER (N) ASSY, PAUSE
413	X-3313-714-0	BRACKET ASSY, HEAD
414	X-3313-716-0	CHASSIS SUB ASSY, SUB
415	X-3313-717-0	LEVER SUB ASSY, FF LOCK
416	X-3313-718-2	LEVER ASSY, PAUSE
417	X-3313-719-0	LEVER SUB ASSY, REW LOCK
418	X-3313-720-0	PULLEY ASSY, FR
419	X-3313-722-0	LEVER (B) ASSY, FR
420	*X-3313-724-0	CHASSIS ASSY, MECHANICAL
421	*X-3313-727-1	BRACKET ASSY, COUNTER
422	X-3313-728-1	BASE SUB ASSY, HEAD
423	X-3313-729-1	MOTOR SUB ASSY
424	X-3313-732-1	FLYWHEEL (N) ASSY
425	7-685-146-11	SCREW +P 3X8 TYPE2 NON-SLIT
426	3-319-811-01	SPRING, TENSION
427	4-874-259-00	RUBBER, BRAKE
428	*3-314-618-00	PLATE, SHIELD, MOTOR

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501	1-119-426-00	CAP,ELEC 3.3MF			
502	1-452-202-00	MAGNET			
503	1-501-221-00	ANTENNA, TELESCOPIC			
504	1-503-342-11	SPREKER (TWEETER)			
505	⚠1-533-131-00	HOLDER, FUSE			
506	1-536-833-11	TERMINAL BOARD (SPEAKER)			
507	*1-564-348-00	PLUG (L TYPE) 5P			
508	*1-564-350-00	PLUG (L TYPE) 15P			
509	*1-612-386-11	PC BOARD, RADIO			
510	*1-612-387-11	PC BOARD, ST LED			
511	*1-612-388-11	PC BOARD, ANT TRANSLATION			
512	*1-612-398-11	PC BOARD, POWER AMP			
513	*1-612-399-11	PC BOARD,GRAPHIC EQUALIZER SUB			
514	*1-612-400-11	PC BOARD, POWER SWITCH			
515	*1-612-401-11	PC BOARD, BATTERY TERMINAL			
516	*1-612-402-11	PC BOARD, AUDIO			
517	*1-612-403-11	PC BOARD, FUNCTION			
518	*1-612-404-11	PC BOARD, GRAPHIC EQUALIZER			
519	*1-612-405-11	PC BOARD, JACK			
520	*1-612-406-11	PC BOARD, BUTTON			
521	*1-612-407-11	PC BOARD, SYSTEM CONTROL			
522	*1-612-408-11	PC BOARD, EPM TRANSLATION			
523	*1-612-409-11	PC BOARD, SHUT-OFF			
524	*1-612-410-11	PC BOARD, HEAD TRANSLATION			
525	8-927-156-00	SPEAKER UNIT (070A001)(WOOFER)			
526	*A-3214-069-A	PC BOARD ASSY, RADIO			
527	*A-3215-559-A	PCB ASSY, GRAPHIC EQUALIZER			
528	*A-3215-619-A	PC BOARD ASSY, POWER AMPLIFIER			
529	*A-3215-620-A	PC BOARD ASSY, AUDIO			
C1	1-162-024-00	CERAMIC	30PF	5%	50V
C2	1-162-113-00	CERAMIC	0.01MF	30%	16V
C3	1-162-113-00	CERAMIC	0.01MF	30%	16V
C4	1-162-004-00	CERAMIC	1.8PF	20%	50V
C5	1-162-113-00	CERAMIC	0.01MF	30%	16V
C6	1-162-113-00	CERAMIC	0.01MF	30%	16V
C7	1-102-745-00	CERAMIC	7PF	0.5PF	50V
C8	1-102-516-00	CERAMIC	27PF	5%	50V
C9	1-101-997-00	CERAMIC	5PF	0.5PF	50V
C10	1-162-113-00	CERAMIC	0.01MF	30%	16V
C11	1-123-379-00	ELECT	0.47MF	20%	50V
C12	1-162-001-00	CERAMIC	1PF	20%	50V
C13	1-162-306-31	CERAMIC	0.01MF	20%	16V
C14	1-162-113-00	CERAMIC	0.01MF	30%	16V
C15	1-162-113-00	CERAMIC	0.01MF	30%	16V

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C16	1-162-113-00	CERAMIC	0.01MF	30%	16V
C17	1-162-113-00	CERAMIC	0.01MF	30%	16V
C18	1-101-004-00	CERAMIC	0.01MF		50V
C19	1-101-004-00	CERAMIC	0.01MF		50V
C20	1-102-965-00	CERAMIC	39PF	5%	50V
C21	1-123-661-00	ELECT	100MF	20%	6.3V
C22	1-101-004-00	CERAMIC	0.01MF		50V
C23	1-161-055-00	CERAMIC	0.022MF	10%	25V
C24	1-102-110-00	CERAMIC	220PF	10%	50V
C25	1-161-053-00	CERAMIC	0.015MF	10%	25V
C26	1-162-282-31	CERAMIC	100PF	10%	50V
C27	1-123-369-00	ELECT	4.7MF	20%	25V
C28	1-123-330-00	ELECT	22MF	20%	16V
C29	1-123-356-00	ELECT	10MF	20%	16V
C30	1-161-055-00	CERAMIC	0.022MF	10%	25V
C31	1-123-616-00	ELECT	4.7MF	20%	25V
C32	1-123-381-00	ELECT	2.2MF	20%	50V
C33	1-123-647-00	ELECT	47MF	20%	6.3V
C34	1-161-494-00	CERAMIC	0.022MF	30%	25V
C35	1-162-113-00	CERAMIC	0.01MF	30%	16V
C36	1-123-332-00	ELECT	47MF	20%	16V
C37	1-123-306-00	ELECT	47MF	20%	10V
C39	1-102-960-00	CERAMIC	24PF	5%	50V
C40	1-123-381-00	ELECT	2.2MF	20%	50V
C41	1-161-055-00	CERAMIC	0.022MF	10%	25V
C42	1-123-369-00	ELECT	4.7MF	20%	25V
C43	1-102-106-00	CERAMIC	100PF	10%	50V
C44	1-162-015-00	CERAMIC	12PF	5%	50V
C47	1-102-888-00	CERAMIC	150PF	5%	50V
C48	1-123-356-00	ELECT	10MF	20%	16V
C49	1-162-306-31	CERAMIC	0.01MF	20%	16V
C50	1-101-081-00	CERAMIC	130PF	2%	50V
C51	1-102-973-00	CERAMIC	100PF	2%	50V
C52	1-102-973-00	CERAMIC	100PF	2%	50V
C53	1-102-973-00	CERAMIC	100PF	2%	50V
C54	1-161-974-00	CERAMIC	0.1MF	0	16V
C55	1-123-381-00	ELECT	2.2MF	20%	50V
C56	1-161-059-00	CERAMIC	0.047MF	10%	25V
C57	1-161-059-00	CERAMIC	0.047MF	10%	25V
C58	1-123-381-00	ELECT	2.2MF	20%	50V
C59	1-123-332-00	ELECT	47MF	20%	16V
C60	1-123-380-00	ELECT	1MF	20%	50V
C61	1-123-380-00	ELECT	1MF	20%	50V
C62	1-123-379-00	ELECT	0.47MF	20%	50V
C63	1-123-379-00	ELECT	0.47MF	20%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C64	1-161-938-00	CERAMIC	0.001MF	5%	50V
C65	1-123-369-00	ELECT	4.7MF	20%	25V
C66	1-123-369-00	ELECT	4.7MF	20%	25V
C67	1-161-059-00	CERAMIC	0.047MF	10%	25V
C68	1-161-059-00	CERAMIC	0.047MF	10%	25V
C69	1-162-113-00	CERAMIC	0.01MF	30%	16V
C70	1-161-494-00	CERAMIC	0.022MF	30%	25V
C71	1-161-055-00	CERAMIC	0.022MF	10%	25V
C74	1-123-332-00	ELECT	47MF	20%	16V
C75	1-162-306-31	CERAMIC	0.01MF	20%	16V
C76	1-162-113-00	CERAMIC	0.01MF	30%	16V
C77	1-102-856-00	CERAMIC	5PF	0.5PF	50V
C78	1-162-113-00	CERAMIC	0.01MF	30%	16V
C80	1-162-306-31	CERAMIC	0.01MF	20%	16V
C81	1-162-113-00	CERAMIC	0.01MF	30%	16V
C82	1-162-306-31	CERAMIC	0.01MF	20%	16V
C84	1-162-306-31	CERAMIC	0.01MF	20%	16V
C101	1-123-369-00	ELECT	4.7MF	20%	25V
C102	1-102-074-00	CERAMIC	0.001MF	10%	50V
C103	1-102-117-00	CERAMIC	820PF	10%	50V
C104	1-130-489-00	MYLAR	0.033MF	5%	50V
C105	1-123-307-00	ELECT	100MF	20%	6.3V
C106	1-123-382-00	ELECT	3.3MF	20%	50V
C107	1-130-487-00	MYLAR	0.022MF	5%	50V
C111	1-123-381-00	ELECT	2.2MF	20%	50V
C112	1-123-369-00	ELECT	4.7MF	20%	25V
C113	1-130-479-00	MYLAR	0.0047MF	5%	50V
C114	1-130-489-00	MYLAR	0.033MF	5%	50V
C115	1-127-479-91	ELECT(SOLID)	1MF	5%	25V
C116	1-130-486-00	MYLAR	0.018MF	5%	50V
C117	1-131-409-00	ELECT(SOLID)	0.33MF	5%	25V
C118	1-127-479-91	ELECT(SOLID)	1MF	5%	25V
C119	1-123-380-00	ELECT	1MF	20%	50V
C120	1-123-380-00	ELECT	1MF	20%	50V
C121	1-123-380-00	ELECT	1MF	20%	50V
C122	1-102-962-00	CERAMIC	30PF	5%	50V
C123	1-130-489-00	MYLAR	0.033MF	5%	50V
C124	1-123-382-00	ELECT	3.3MF	20%	50V
C125	1-123-330-00	ELECT	22MF	20%	16V
C126	1-130-485-00	MYLAR	0.015MF	5%	50V
C127	1-130-483-00	MYLAR	0.01MF	5%	50V
C128	1-130-485-00	MYLAR	0.015MF	5%	50V
C129	1-130-467-00	MYLAR	470PF	5%	50V
C130	1-101-367-00	CERAMIC	160PF	5%	50V
C131	1-107-164-00	MICA	51PF	5%	500V

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C132	1-130-471-00	MYLAR	0.01MF	5%	50V
C145	1-123-369-00	ELECT	4.7MF	20%	25V
C146	1-102-074-00	CERAMIC	0.001MF	10%	50V
C147	1-130-481-00	MYLAR	0.0068MF	5%	50V
C148	1-130-489-00	MYLAR	0.033MF	5%	50V
C149	1-123-306-00	ELECT	47MF	20%	6.3V
C150	1-123-369-00	ELECT	4.7MF	20%	25V
C170	1-123-379-00	ELECT	0.47MF	20%	50V
C171	1-162-107-00	CERAMIC	560PF	10%	50V
C172 Δ	1-123-345-00	ELECT	100MF	20%	35V
C173	1-130-495-00	MYLAR	0.1MF	5%	50V
C174	1-123-333-00	ELECT	100MF	20%	25V.
C175 Δ	1-123-349-00	ELECT	1000MF	20%	35V
C301	1-123-307-00	ELECT	100MF	20%	10V
C302	1-123-356-00	ELECT	10MF	20%	16V
C303	1-123-308-00	ELECT	220MF	20%	10V
C304	1-123-307-00	ELECT	100MF	20%	10V
C305	1-123-356-00	ELECT	10MF	20%	16V
C306	1-123-308-00	ELECT	220MF	20%	6.3V
C307	1-123-381-00	ELECT	2.2MF	20%	50V
C308	1-123-308-00	ELECT	220MF	20%	10V
C309	1-123-307-00	ELECT	100MF	20%	10V
C310	1-123-330-00	ELECT	22MF	20%	16V
C311	1-123-380-00	ELECT	1MF	20%	50V
C312	1-123-380-00	ELECT	1MF	20%	50V
C313	1-123-379-00	ELECT	0.47MF	20%	50V
C314	1-130-495-00	MYLAR	0.1MF	5%	50V
C315	1-123-379-00	ELECT	0.47MF	20%	50V
C316	1-123-382-00	ELECT	3.3MF	20%	50V
C317	1-123-381-00	ELECT	2.2MF	20%	50V
C318	1-123-306-00	ELECT	47MF	20%	10V
C319	1-123-380-00	ELECT	1MF	20%	50V
C320	1-123-356-00	ELECT	10MF	20%	16V
C321	1-123-307-00	ELECT	100MF	20%	10V
C322	1-123-379-00	ELECT	0.47MF	20%	50V
C325	1-161-013-00	CERAMIC	0.01MF	10%	25V
C326	1-123-381-00	ELECT	2.2MF	20%	50V
C327	1-162-037-00	CERAMIC	100PF	5%	50V
C328	1-162-110-00	CERAMIC	0.001MF	10%	50V
C329	1-123-381-00	ELECT	2.2MF	20%	50V
C341	1-123-307-00	ELECT	100MF	20%	10V
C342	1-123-307-00	ELECT	100MF	20%	10V
C343	1-106-343-00	MYLAR	0.001MF	5%	200V
C344	1-106-351-00	MYLAR	0.0022MF	5%	200V
C345	1-162-113-00	CERAMIC	0.01MF	30%	16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C346	1-162-113-00	CERAMIC	0.01MF	30%	16V
C370	1-123-356-00	ELECT	10MF	20%	50V
C371	1-123-360-00	ELECT	100MF	20%	50V
C372	1-123-345-00	ELECT	100MF	20%	35V
C373	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C374	1-162-037-00	CERAMIC	100PF	5%	50V
C375 Δ	1-123-360-00	ELECT	100MF	20%	50V
C376 Δ	1-123-361-00	ELECT	220MF	20%	50V
C377	1-123-306-00	ELECT	47MF	20%	10V
C401	1-123-380-00	ELECT	1MF	20%	50V
C402	1-123-356-00	ELECT	10MF	20%	16V
C403	1-123-307-00	ELECT	100MF	20%	10V
C404	1-123-380-00	ELECT	1MF	20%	50V
C405	1-161-013-00	CERAMIC	0.01MF	10%	25V
C411	1-123-382-00	ELECT	3.3MF	20%	50V
C412	1-161-058-00	CERAMIC	0.039MF	10%	25V
C413	1-131-407-00	ELECT(SOLID)	0.68MF	10%	25V
C414	1-161-052-00	CERAMIC	0.012MF	10%	25V
C415	1-130-636-00	FILM	0.22MF	5%	50V
C416	1-161-046-00	CERAMIC	0.0039MF	10%	25V
C417	1-130-493-00	MYLAR	0.068MF	5%	50V
C418	1-161-002-00	CERAMIC	0.0012MF	10%	25V
C419	1-161-055-00	CERAMIC	0.022MF	10%	25V
C420	1-162-105-00	CERAMIC	390PF	10%	50V
C421	1-161-049-00	CERAMIC	0.0068MF	10%	25V
C422	1-102-074-00	CERAMIC	0.001MF	10%	50V
C423	1-123-382-00	ELECT	3.3MF	20%	50V
C424	1-123-330-00	ELECT	22MF	20%	16V
C439	1-123-306-00	ELECT	47MF	20%	10V
C701	1-161-183-00	CERAMIC	0.0068MF	5%	25V
C702	1-130-480-00	MYLAR	0.0056MF	5%	50V
C703	1-123-307-00	ELECT	100MF	20%	6.3V
C704	1-123-356-00	ELECT	10MF	20%	25V
C705	1-123-381-00	ELECT	2.2MF	20%	50V
C706	1-123-381-00	ELECT	2.2MF	20%	50V
C707	1-123-380-00	ELECT	1MF	20%	50V
C708	1-123-380-00	ELECT	1MF	20%	50V
C709	1-161-974-00	CERAMIC	0.1MF	0	16V
C710	1-161-974-00	CERAMIC	0.1MF	0	16V
C711	1-161-974-00	CERAMIC	0.1MF	0	16V
C712	1-123-381-00	ELECT	2.2MF	20%	50V
C713	1-123-307-00	ELECT	100MF	20%	10V
C714	1-123-356-00	ELECT	10MF	20%	16V
C715	1-161-013-00	CERAMIC	0.01MF	10%	25V
C716	1-161-013-00	CERAMIC	0.01MF	10%	25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C717	1-161-013-00	CERAMIC	0.01MF	10%	25V
C718	1-161-013-00	CERAMIC	0.01MF	10%	25V
C719	1-123-369-00	ELECT	4.7MF	20%	25V
C901	1-108-377-00	MYLAR	0.01MF	10%	100V
C902	1-108-377-00	MYLAR	0.01MF	10%	100V
C903	1-108-377-00	MYLAR	0.01MF	10%	100V
C904	1-101-004-00	CERAMIC	0.01MF		50V
C905 Δ	1-125-364-11	ELECT(BLOCK)	4700MF	20%	50V
C906	1-101-004-00	CERAMIC	0.01MF		50V
C907	1-101-004-00	CERAMIC	0.01MF		50V
C908	1-101-004-00	CERAMIC	0.01MF		50V
C909	1-123-325-00	ELECT	2200MF	20%	16V
C910	1-123-324-00	ELECT	1000MF	20%	16V
C911	1-123-323-00	ELECT	470MF	20%	16V
C912	1-161-974-00	CERAMIC	0.1MF	0	16V
C913	1-101-004-00	CERAMIC	0.01MF		50V
C914	1-108-377-00	MYLAR	0.01MF	10%	100V
C916	1-162-306-31	CERAMIC	10000PF	30%	16V
C917	1-161-494-00	CERAMIC	0.022MF	30%	25V
C918	1-102-106-00	CERAMIC	100PF	10%	50V
C919	1-162-037-00	CERAMIC	100PF	5%	50V
C920	1-162-037-00	CERAMIC	100PF	5%	50V
C921	1-108-387-00	MYLAR	0.068MF	10%	100V
C922	1-108-387-00	MYLAR	0.068MF	10%	100V
CF1	1-527-795-71	FILTER, CERAMIC			
CF2	1-527-795-71	FILTER, CERAMIC			
CF3	1-527-982-00	FILTER, CERAMIC			
CN901 Δ	1-526-780-11	INLET, AC BC (2P)			
CNJ1	*1-560-461-00	PIN, CONNECTOR 5P			
CNJ101	*1-560-459-00	PIN, CONNECTOR 3P			
CNJ102	*1-560-459-00	PIN, CONNECTOR 3P			
CNJ103	*1-560-459-00	PIN, CONNECTOR 3P			
CNJ104	*1-560-455-00	PIN, CONNECTOR 2P			
CNJ105	*1-560-455-00	PIN, CONNECTOR 2P			
CNJ201	*1-560-469-00	PIN, CONNECTOR 6P			
CNJ202	*1-560-456-00	PIN, CONNECTOR 2P			
CNJ203	*1-560-456-00	PIN, CONNECTOR 2P			
CNJ204	*1-560-591-00	PIN, CONNECTOR 7P			
CNJ205	*1-560-468-00	PIN, CONNECTOR 5P			
CNJ401	*1-560-455-00	PIN, CONNECTOR 2P			
CNJ402	*1-560-462-00	PIN, CONNECTOR 6P			
CNJ701	*1-560-466-00	PIN, CONNECTOR 3P			
CNJ702	*1-560-470-00	PIN, CONNECTOR 8P			
CNJ703	*1-560-456-00	PIN, CONNECTOR 2P			
CNJ704	*1-560-467-00	PIN, CONNECTOR 4P			
CNJ705	*1-560-466-00	PIN, CONNECTOR 3P			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CNP1	*1-561-586-00	HOUSING, CONNECTOR 5P
CNP101	*1-561-584-00	HOUSING, CONNECTOR 3P
CNP102	*1-561-584-00	HOUSING, CONNECTOR 3P
CNP103	*1-561-584-00	HOUSING, CONNECTOR 3P
CNP104	*1-561-581-00	HOUSING, CONNECTOR 2P
CNP105	*1-561-581-00	HOUSING, CONNECTOR 2P
CNP203	*1-561-581-00	HOUSING, CONNECTOR 2P
CNP205	*1-561-586-00	HOUSING, CONNECTOR 5P
CNP401	*1-561-581-00	HOUSING, CONNECTOR 2P
CNP402	*1-561-587-00	HOUSING, CONNECTOR 6P
CNP701	*1-561-584-00	HOUSING, CONNECTOR 3P
CNP703	*1-561-581-00	HOUSING, CONNECTOR 2P
CNP704	*1-561-585-00	HOUSING, CONNECTOR 4P
CNP705	*1-561-584-00	HOUSING, CONNECTOR 3P
CP301	1-464-336-11	OSCILLATION UNIT, BIAS
CP901 Δ	1-130-455-00	FILM 0.01MF 20% 250V
CT5	1-141-227-00	TRIMMER, CERAMIC
CT6	1-141-227-00	TRIMMER, CERAMIC
CT7	1-141-227-00	TRIMMER, CERAMIC
CV1-4	1-151-466-11	CAP, TUNING, POLYETHYLENE
D1	8-719-911-19	DIODE 1SS119
D2	8-719-911-19	DIODE 1SS119
D3	8-719-911-19	DIODE 1SS119
D4	8-719-911-19	DIODE 1SS119
D5	8-719-100-34	DIODE RD5.6EB1
D6	8-719-768-71	DIODE 1S2687S-1
D7	8-719-119-19	DIODE 1SS119
D8	8-719-907-34	DIODE GL-9NG10
D9	8-719-909-10	DIODE GL-9PR10
D10	8-719-911-19	DIODE 1SS119
D301	8-719-911-19	DIODE 1SS119
D302	8-719-911-19	DIODE 1SS119
D303	8-719-911-19	DIODE 1SS119
D304	8-719-911-19	DIODE 1SS119
D305	8-719-911-19	DIODE 1SS119
D307	8-719-911-19	DIODE 1SS119
D370	8-719-100-18	DIODE RD3.6EB1
D371	8-719-911-19	DIODE 1SS119
D372	8-719-911-19	DIODE 1SS119
D401	8-719-902-06	DIODE SLP152B-50
D701	8-719-100-40	DIODE RD6.8EB1
D702	8-719-911-19	DIODE 1SS119
D703	8-719-100-43	DIODE RD7.5EB1
D704	8-719-911-19	DIODE 1SS119

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- All resistors are in ohms.
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- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
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The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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ELECTRICAL PARTS

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D705	8-719-911-19	DIODE 1SS119
D706	8-719-911-19	DIODE 1SS199
D707	8-719-911-19	DIODE 1SS119
D709	8-719-911-19	DIODE 1SS119
D751	8-719-911-19	DIODE 1SS119
D752	8-719-911-19	DIODE 1SS119
D753	8-719-900-21	DIODE GL-2HY1
D754	8-719-905-21	DIODE GL-2PG1
D755	8-719-905-21	DIODE GL-2PG1
D756	8-719-921-00	DIODE GL-2PR1
D901 ⚠	8-719-504-40	DIODE S4VB20
D902 ⚠	8-719-500-05	DIODE S1RBA10F
D903	8-719-100-60	DIODE RD11EB1
D904 ⚠	8-719-230-04	DIODE 30DF
EH101	8-825-559-11	HEAD, ERASE (EF250-36A)
F901 ⚠	1-532-215-00	FUSE, TIME-LAG
F902 ⚠	1-532-078-00	FUSE, TIME-LAG
FL1	1-235-222-00	FILTER, BANDPASS
FL2	1-235-221-00	FILTER, LOW PASS
HRP101	8-825-507-40	HEAD, REC/PB (PP227-3602B)
IC1	8-759-801-24	IC LA1260S
IC2	8-759-833-61	IC LA3361
IC301	8-759-800-66	IC LA3161
IC302	8-759-301-21	IC HA12046
IC303	8-759-800-92	IC LA3220
IC304	8-759-932-80	IC BA328
IC305	8-759-800-71	IC LA2010
IC370 ⚠	8-749-943-01	IC STK4301
IC401	8-759-801-04	IC LB1403N
IC402	8-759-602-04	IC M5226P
IC403	8-759-602-04	IC M5226P
IC701	8-759-201-76	IC TC9310N-027
J101	1-561-332-00	JACK, PIN 4P (PHONO/CD/AUX)
J102	1-561-332-00	JACK, PIN 4P (LINE OUT)
J201	1-561-332-00	JACK, PIN 4P (PHONO/CD/AUX)
J202	1-561-332-00	JACK, PIN 4P (LINE OUT)
J301	1-507-834-31	JACK (MIX MIC)
J311	1-507-670-00	JACK (HEADPHONES)
L1	1-425-991-00	COIL
L2	1-459-393-00	COI (WITH CORE)
L3	1-402-085-11	ANTENNA, FERRITE-ROD (LW/MW)
L4	1-402-085-11	ANTENNA, FERRITE-ROD (LW/MW)
L5	1-408-579-00	MICRO INDUCTOR 220UH
L7	1-405-830-00	COIL, MW OSC

ELECTRICAL PARTS

Ref.No.	Part No.	Description
L8	1-402-091-11	COIL (ANT)
L9	1-402-090-11	COIL (ANT)
L10	1-402-089-11	COIL (ANT)
L11	1-402-088-11	COIL (ANT)
L12	1-402-087-11	COIL (ANT)
L13	1-405-983-00	COIL, OSC (SW2)
L14	1-406-008-00	COIL, OSC (SW2)
L15	1-405-985-00	COIL, OSC (SW4)
L16	1-405-986-00	COIL, OSC (SW5)
L17	1-406-009-00	COIL, OSC (SW5)
L18	1-408-674-00	MICRO INDUCTOR 0.68UH
L19	1-408-579-00	MICRO INDUCTOR 220UH
L20	1-408-579-00	MICRO INDUCTOR 220UH
L101	1-408-924-00	MICRO INDUCTOR 10MMH
L102	1-408-928-00	MICRO INDUCTOR 22MMH
L201	1-408-924-00	MICRO INDUCTOR 10MMH
L202	1-408-928-00	MICRO INDUCTOR 22MMH
L301	1-408-197-00	MICRO INDUCTOR 150UH
L701	1-408-579-00	MICRO INDUCTOR 220UH
M901	1-541-239-00	MOTOR
PH701	8-719-902-90	PHOTO INTERRUPTOR SPI201-20
PM701	1-454-351-00	SOLENOID, PLUNGER
PM702	1-454-352-00	SOLENOID, PLUNGER
PM703	1-454-351-00	SOLENOID, PLUNGER
PM704	1-454-353-00	SOLENOID, PLUNGER
Q1	8-729-883-92	TRANSISTOR 2SC2839
Q2	8-729-178-62	TRANSISTOR 2SC2786-L
Q3	8-729-672-42	TRANSISTOR 2SC2724-C
Q4	8-729-103-30	TRANSISTOR 2SC2786-1-LF
Q5	8-729-245-83	TRANSISTOR 2SC2458
Q6	8-729-245-83	TRANSISTOR 2SC2458
Q7	8-729-119-32	TRANSISTOR 2SK193
Q8	8-729-245-83	TRANSISTOR 2SC2458
Q9	8-729-245-83	TRANSISTOR 2SC2458
Q11	8-729-245-83	TRANSISTOR 2SC2458
Q12	8-729-245-83	TRANSISTOR 2SC2458
Q102	8-729-245-83	TRANSISTOR 2SC2458
Q103	8-729-245-83	TRANSISTOR 2SC2458
Q104	8-729-245-83	TRANSISTOR 2SC2458
Q105	8-729-245-83	TRANSISTOR 2SC2458
Q106	8-729-245-83	TRANSISTOR 2SC2458
Q107	8-729-100-13	TRANSISTOR 2SC2001
Q170	8-729-245-83	TRANSISTOR 2SC2458
Q202	8-729-245-83	TRANSISTOR 2SC2458
Q203	8-729-245-83	TRANSISTOR 2SC2458
Q204	8-729-245-83	TRANSISTOR 2SC2458

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q205	8-729-245-83	TRANSISTOR 2SC2458
Q206	8-729-245-83	TRANSISTOR 2SC2458
Q207	8-729-100-13	TRANSISTOR 2SC2001
Q270	8-729-245-83	TRANSISTOR 2SC2458
Q301	8-729-245-83	TRANSISTOR 2SC2458
Q302	8-729-245-83	TRANSISTOR 2SC2458
Q303	8-729-245-83	TRANSISTOR 2SC2458
Q304	8-729-245-83	TRANSISTOR 2SC2458
Q305	8-729-245-83	TRANSISTOR 2SC2458
Q306	8-729-100-13	TRANSISTOR 2SC2001
Q307	8-729-245-83	TRANSISTOR 2SC2458
Q308	8-729-245-83	TRANSISTOR 2SC2458
Q309	8-729-245-83	TRANSISTOR 2SC2458
Q371	8-729-245-83	TRANSISTOR 2SC2458
Q372	8-729-245-83	TRANSISTOR 2SC2458
Q701	8-729-245-83	TRANSISTOR 2SC2458
Q702	8-729-177-32	TRANSISTOR 2SD773
Q703	8-729-245-83	TRANSISTOR 2SC2458
Q704	8-729-245-83	TRANSISTOR 2SC2458
Q706	8-729-245-83	TRANSISTOR 2SC2458
Q707	8-729-245-83	TRANSISTOR 2SC2458
Q708	8-729-245-83	TRANSISTOR 2SC2458
Q709	8-729-245-83	TRANSISTOR 2SC2458
Q710	8-729-245-83	TRANSISTOR 2SC2458
Q711	8-729-245-83	TRANSISTOR 2SC2458
Q712	8-729-378-84	TRANSISTOR 2SD773
Q713	8-729-245-83	TRANSISTOR 2SC2458
Q751	8-729-245-83	TRANSISTOR 2SC2458
Q752	8-729-245-83	TRANSISTOR 2SC2458
Q901	8-729-177-23	TRANSISTOR 2SB772
Q902	8-729-831-33	TRANSISTOR 2SD313HP
Q903	8-729-245-83	TRANSISTOR 2SC2458

R1	1-247-891-00	CARBON	330K	5%	1/6W
R2	1-247-819-00	CARBON	330	5%	1/6W
R3	1-247-807-00	CARBON	100	5%	1/6W
R4	1-247-849-00	CARBON	5.6K	5%	1/6W
R5	1-247-879-00	CARBON	100K	5%	1/6W
R6	1-247-799-00	CARBON	47	5%	1/6W
R7	1-247-879-00	CARBON	100K	5%	1/6W
R8	1-247-879-00	CARBON	100K	5%	1/6W
R9	1-247-883-00	CARBON	150K	5%	1/6W
R10	1-247-827-00	CARBON	680	5%	1/6W
R11	1-247-889-00	CARBON	270K	5%	1/6W
R12	1-247-819-00	CARBON	330	5%	1/6W

ELECTRICAL PARTS

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R13	1-247-827-00	CARBON	680	5%	1/6W
R14	1-247-889-00	CARBON	270K	5%	1/6W
R15	1-247-819-00	CARBON	330	5%	1/6W
R16	1-247-819-00	CARBON	330	5%	1/6W
R17	1-247-807-00	CARBON	100	5%	1/6W
R18	1-247-807-00	CARBON	100	5%	1/6W
R19	1-247-851-00	CARBON	6.8K	5%	1/6W
R20	1-247-793-00	CARBON	27	5%	1/6W
R21	1-247-831-00	CARBON	1K	5%	1/6W
R22	1-247-847-00	CARBON	4.7K	5%	1/6W
R23	1-247-851-00	CARBON	6.8K	5%	1/6W
R24	1-247-867-00	CARBON	33K	5%	1/6W
R25	1-247-879-00	CARBON	100K	5%	1/6W
R26	1-247-807-00	CARBON	100	5%	1/6W
R27	1-247-795-00	CARBON	33	5%	1/6W
R28	1-247-827-00	CARBON	680	5%	1/6W
R29	1-247-839-00	CARBON	2.2K	5%	1/6W
R30	1-247-107-00	CARBON	100	5%	1/4W
R31	1-247-847-00	CARBON	4.7K	5%	1/6W
R32	1-247-847-00	CARBON	4.7K	5%	1/6W
R33	1-247-903-00	CARBON	1M	5%	1/6W
R34	1-247-821-00	CARBON	390	5%	1/6W
R35	1-247-813-00	CARBON	180	5%	1/6W
R36	1-247-807-00	CARBON	100	5%	1/6W
R37	1-247-825-00	CARBON	560	5%	1/6W
R38	1-247-879-00	CARBON	100K	5%	1/6W
R39	1-247-879-00	CARBON	100K	5%	1/6W
R40	1-247-863-00	CARBON	22K	5%	1/6W
R41	1-247-839-00	CARBON	2.2K	5%	1/6W
R42	1-247-855-00	CARBON	10K	5%	1/6W
R43	1-247-107-00	CARBON	100	5%	1/4W
R44	1-247-855-00	CARBON	10K	5%	1/6W
R45	1-247-855-00	CARBON	10K	5%	1/6W
R46	1-247-822-00	CARBON	430	5%	1/6W
R47	1-247-863-00	CARBON	22K	5%	1/6W
R48	1-247-853-00	CARBON	8.2K	5%	1/6W
R49	1-247-831-00	CARBON	1K	5%	1/6W
R50	1-247-838-00	CARBON	2K	5%	1/6W
R51	1-247-838-00	CARBON	2K	5%	1/6W
R52	1-247-834-00	CARBON	1.3K	5%	1/6W
R53	1-247-834-00	CARBON	1.3K	5%	1/6W
R54	1-247-847-00	CARBON	4.7K	5%	1/6W
R55	1-247-863-00	CARBON	22K	5%	1/6W
R56	1-247-826-00	CARBON	620	5%	1/6W
R57	1-247-807-00	CARBON	100	5%	1/6W

NOTE:
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- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R58	1-247-819-00	CARBON	330	5%	1/6W
R59	1-247-839-00	CARBON	2.2K	5%	1/6W
R60	1-247-839-00	CARBON	2.2K	5%	1/6W
R101	1-247-839-00	CARBON	2.2K	5%	1/6W
R102	1-247-881-00	CARBON	120K	5%	1/6W
R103	1-247-794-00	CARBON	30	5%	1/6W
R104	1-247-822-00	CARBON	430	5%	1/6W
R105	1-247-855-00	CARBON	10K	5%	1/6W
R106	1-247-876-00	CARBON	75K	5%	1/6W
R108	1-247-873-00	CARBON	56K	5%	1/6W
R109	1-247-855-00	CARBON	10K	5%	1/6W
R110	1-247-843-00	CARBON	3.3K	5%	1/6W
R111	1-247-871-00	CARBON	47K	5%	1/6W
R112	1-247-850-00	CARBON	6.2K	5%	1/6W
R113	1-247-871-00	CARBON	47K	5%	1/6W
R114	1-247-883-00	CARBON	150K	5%	1/6W
R115	1-247-831-00	CARBON	1K	5%	1/6W
R116	1-247-872-00	CARBON	51K	5%	1/6W
R117	1-247-831-00	CARBON	1K	5%	1/6W
R118	1-247-817-00	CARBON	270	5%	1/6W
R120	1-247-846-00	CARBON	4.3K	5%	1/6W
R121	1-247-843-00	CARBON	3.3K	5%	1/6W
R122	1-247-845-00	CARBON	3.9K	5%	1/6W
R123	1-247-783-00	CARBON	10	5%	1/6W
R124	1-247-855-00	CARBON	10K	5%	1/6W
R125	1-247-855-00	CARBON	10K	5%	1/6W
R126	1-247-855-00	CARBON	10K	5%	1/6W
R127	1-247-859-00	CARBON	15K	5%	1/6W
R128	1-247-831-00	CARBON	1K	5%	1/6W
R129	1-247-855-00	CARBON	10K	5%	1/6W
R130	1-247-831-00	CARBON	1K	5%	1/6W
R131	1-247-831-00	CARBON	1K	5%	1/6W
R132	1-247-872-00	CARBON	51K	5%	1/6W
R133	1-247-855-00	CARBON	10K	5%	1/6W
R144	1-247-831-00	CARBON	1K	5%	1/6W
R145	1-247-871-00	CARBON	47K	5%	1/6W
R146	1-247-856-00	CARBON	11K	5%	1/6W
R147	1-247-879-00	CARBON	100K	5%	1/6W
R148	1-247-823-00	CARBON	470	5%	1/6W
R149	1-247-871-00	CARBON	47K	5%	1/6W
R150	1-247-852-00	CARBON	7.5K	5%	1/6W
R151	1-247-849-00	CARBON	5.6K	5%	1/6W
R152	1-247-847-00	CARBON	4.7K	5%	1/6W
R153	1-247-852-00	CARBON	7.5K	5%	1/6W
R170	1-247-859-00	CARBON	15K	5%	1/6W
R171	1-247-850-00	CARBON	6.2K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R172	1-247-866-00	CARBON	30K	5%	1/6W	
R173	1-247-863-00	CARBON	22K	5%	1/6W	
R174	1-247-799-00	CARBON	47	5%	1/6W	
R175	1-247-843-00	CARBON	3.3K	5%	1/6W	
R176 ⚠	1-217-383-00	FUSIBLE	4.7	5%	1/4W	F
R177 ⚠	1-206-647-00	METAL OXIDE	200	5%	2W	F
R178	1-247-122-00	CARBON	430	5%	1/4W	
R179	1-247-122-00	CARBON	430	5%	1/4W	
R180	1-247-863-00	CARBON	22K	5%	1/6W	
R181 ⚠	1-206-647-00	METAL OXIDE	200	5%	2W	F
R301 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R303	1-247-855-00	CARBON	10K	5%	1/6W	
R304	1-247-843-00	CARBON	3.3K	5%	1/6W	
R305	1-247-861-00	CARBON	18K	5%	1/6W	
R306	1-247-896-00	CARBON	510K	5%	1/6W	
R307	1-247-842-00	CARBON	3K	5%	1/6W	
R308	1-247-831-00	CARBON	1K	5%	1/6W	
R309	1-247-848-00	CARBON	5.1K	5%	1/6W	
R310	1-247-891-00	CARBON	330K	5%	1/6W	
R311	1-202-472-00	SOLID	5.1M	5%	1/4W	
R312 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R313 ⚠	1-212-863-00	FUSIBLE	18	5%	1/4W	F
R314	1-246-444-00	CARBON	62	5%	1/4W	
R315	1-247-097-00	CARBON	39	5%	1/4W	
R316	1-247-831-00	CARBON	1K	5%	1/6W	
R317	1-247-831-00	CARBON	1K	5%	1/6W	
R318	1-247-831-00	CARBON	1K	5%	1/6W	
R319	1-247-855-00	CARBON	10K	5%	1/6W	
R320	1-247-843-00	CARBON	3.3K	5%	1/6W	
R321	1-247-843-00	CARBON	3.3K	5%	1/6W	
R322	1-247-807-00	CARBON	100	5%	1/6W	
R323	1-247-843-00	CARBON	3.3K	5%	1/6W	
R324	1-247-855-00	CARBON	10K	5%	1/6W	
R325	1-247-839-00	CARBON	2.2K	5%	1/6W	
R326	1-247-866-00	CARBON	30K	5%	1/6W	
R327	1-247-839-00	CARBON	2.2K	5%	1/6W	
R328	1-247-876-00	CARBON	75K	5%	1/6W	
R329	1-247-849-00	CARBON	5.6K	5%	1/6W	
R330	1-247-831-00	CARBON	1K	5%	1/6W	
R331 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R332	1-247-879-00	CARBON	100K	5%	1/6W	
R333	1-247-900-00	CARBON	750K	5%	1/6W	
R334	1-247-863-00	CARBON	22K	5%	1/6W	
R335	1-247-866-00	CARBON	30K	5%	1/6W	
R336	1-247-889-00	CARBON	270K	5%	1/6W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R337	1-247-843-00	CARBON	3.3K	5%	1/6W	
R338	1-247-794-00	CARBON	30	5%	1/6W	
R339	1-247-831-00	CARBON	1K	5%	1/6W	
R340	1-247-879-00	CARBON	100K	5%	1/6W	
R341	1-247-831-00	CARBON	1K	5%	1/6W	
R342 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R350	1-247-087-00	CARBON	15	5%	1/4W	
R373	1-247-847-00	CARBON	4.7K	5%	1/6W	
R374	1-247-855-00	CARBON	10K	5%	1/6W	
R375	1-247-831-00	CARBON	1K	5%	1/6W	
R376	1-247-879-00	CARBON	100K	5%	1/6W	
R377	1-247-876-00	CARBON	75K	5%	1/6W	
R378	1-247-855-00	CARBON	10K	5%	1/6W	
R379	1-247-122-00	CARBON	430	5%	1/4W	
R380	1-247-122-00	CARBON	430	5%	1/4W	
R381	1-247-839-00	CARBON	2.2K	5%	1/6W	
R382	1-247-876-00	CARBON	75K	5%	1/6W	
R401	1-247-848-00	CARBON	5.1K	5%	1/6W	
R402	1-247-845-00	CARBON	3.9K	5%	1/6W	
R403	1-247-848-00	CARBON	5.1K	5%	1/6W	
R404 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R411	1-247-847-00	CARBON	4.7K	5%	1/6W	
R412	1-247-847-00	CARBON	4.7K	5%	1/6W	
R413	1-247-847-00	CARBON	4.7K	5%	1/6W	
R414	1-247-847-00	CARBON	4.7K	5%	1/6W	
R416	1-247-836-00	CARBON	1.6K	5%	1/6W	
R417	1-247-836-00	CARBON	1.6K	5%	1/6W	
R701	1-247-866-00	CARBON	30K	5%	1/6W	
R702	1-247-855-00	CARBON	10K	5%	1/6W	
R703	1-247-811-00	CARBON	150	5%	1/6W	
R704	1-247-864-00	CARBON	24K	5%	1/6W	
R705	1-247-879-00	CARBON	100K	5%	1/6W	
R706	1-247-891-00	CARBON	330K	5%	1/6W	
R707	1-247-825-00	CARBON	560	5%	1/6W	
R708	1-247-855-00	CARBON	10K	5%	1/6W	
R709	1-247-871-00	CARBON	47K	5%	1/6W	
R710	1-247-855-00	CARBON	10K	5%	1/6W	
R711	1-247-839-00	CARBON	2.2K	5%	1/6W	
R712	1-247-855-00	CARBON	10K	5%	1/6W	
R713	1-247-855-00	CARBON	10K	5%	1/6W	
R714	1-247-849-00	CARBON	5.6K	5%	1/6W	
R715	1-247-849-00	CARBON	5.6K	5%	1/6W	
R716	1-247-849-00	CARBON	5.6K	5%	1/6W	
R717	1-247-835-00	CARBON	1.5K	5%	1/6W	
R718	1-247-821-00	CARBON	390	5%	1/6W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R719	1-247-818-00	CARBON	300	5%	1/6W	
R720	1-247-818-00	CARBON	300	5%	1/6W	
R721	1-247-855-00	CARBON	10K	5%	1/6W	
R722	1-247-859-00	CARBON	15K	5%	1/6W	
R723	1-247-855-00	CARBON	10K	5%	1/6W	
R724	1-247-866-00	CARBON	30K	5%	1/6W	
R725	1-247-855-00	CARBON	10K	5%	1/6W	
R726	1-247-839-00	CARBON	2.2K	5%	1/6W	
R751	1-247-891-00	CARBON	330K	5%	1/6W	
R752	1-247-873-00	CARBON	56K	5%	1/6W	
R753	1-247-831-00	CARBON	1K	5%	1/6W	
R755	1-247-835-00	CARBON	1.5K	5%	1/6W	
R756	1-247-831-00	CARBON	1K	5%	1/6W	
R757	1-247-831-00	CARBON	1K	5%	1/6W	
R758	1-247-831-00	CARBON	1K	5%	1/6W	
R759	1-247-831-00	CARBON	1K	5%	1/6W	
R760	1-247-831-00	CARBON	1K	5%	1/6W	
R761	1-247-831-00	CARBON	1K	5%	1/6W	
R762	1-247-831-00	CARBON	1K	5%	1/6W	
R763	1-247-831-00	CARBON	1K	5%	1/6W	
R901	1-247-815-00	CARBON	220	5%	1/6W	
R902	1-247-831-00	CARBON	1K	5%	1/6W	
R903	1-247-903-00	CARBON	1M	5%	1/6W	
R904	1-247-831-00	CARBON	1K	5%	1/6W	
R906 ⚠	1-247-224-00	CARBON	220	5%	1/2W	F
R907	1-247-866-00	CARBON	30K	5%	1/6W	
RV1	1-230-066-00	RES, ADJ, CARBON 4.7K				
RV101	1-226-237-00	RES, ADJ, CARBON 20K				
RV102	1-226-432-00	RES, ADJ, CARBON 20K				
RV103	1-226-435-00	RES, ADJ, CARBON 200K				
RV201	1-226-237-00	RES, ADJ, CARBON 20K				
RV202	1-226-432-00	RES, ADJ, CARBON 20K				
RV203	1-226-435-00	RES, ADJ, CARBON 200K				
RV401	1-230-416-11	RES, VAR, SLIDE 100K/100K (12kHz)				
RV402	1-230-416-11	RES, VAR, SLIDE 100K/100K (4kHz)				
RV403	1-230-416-11	RES, VAR, SLIDE 100K/100K (1kHz)				
RV404	1-230-416-11	RES, VAR, SLIDE 100K/100K (400Hz)				
RV405	1-230-416-11	RES, VAR, SLIDE 100K/100K (100Hz)				
RV406	1-230-394-11	RES, VAR, SLIDE 100K (BALANCE)				
RV407	1-230-393-11	RES, VAR, SLIDE 20K/20K (VOLUME)				
RV408	1-230-435-11	RES, VAR, CARBON 100K/100K (VOLUME)				

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- All resistors are in ohms.
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SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
S1	1-554-802-11	SWITCH, PUSH (4 KEY)
S2	1-554-802-11	SWITCH, PUSH (4 KEY)
S3	1-554-802-11	SWITCH, PUSH (4 KEY)
S4	1-554-802-11	SWITCH, PUSH (4 KEY)
S5	1-554-803-11	SWITCH, LEVER SLIDE
S301	1-554-828-11	SWITCH, SLIDE (RECORD/PLAYBACK)
S302	1-554-799-11	SWITCH, PUSH (3 KEY)(TAPE)
S303	1-554-799-11	SWITCH, PUSH (3 KEY)(TUNER)
S304	1-554-799-11	SWITCH, PUSH (3 KEY)(CD/AUX)
S305	1-554-795-11	SWITCH, SLIDE (DOLBY)
S306	1-554-799-11	SWITCH, PUSH (3 KEY)(MUTING)
S307	1-554-798-11	SWITCH, SLIDE (ISS/FM MODE)
S308	1-554-796-11	SWITCH, SLIDE (PHONO, CD/AUX)
S309	1-554-468-00	SWITCH, LEAF
S310	1-554-468-00	SWITCH, LEAF
S701	1-552-412-00	SWITCH, KEY BOARD (REW)
S702	1-552-412-00	SWITCH, KEY BOARD (REV)
S703	1-552-412-00	SWITCH, KEY BOARD (STOP)
S704	1-552-412-00	SWITCH, KEY BOARD (FWD)
S705	1-552-412-00	SWITCH, KEY BOARD (FF)
S706	1-552-412-00	SWITCH, KEY BOARD (REC)
S707	1-552-412-00	SWITCH, KEY BOARD (PAUSE)
S708	1-552-412-00	SWITCH, KEY BOARD (AUTO PLAY)
S709	1-552-412-00	SWITCH, KEY BOARD (REC MUTE)
S710	1-554-797-11	SWITCH, SLIDE (TIMER)
S711	1-554-797-11	SWITCH, SLIDE (MODE)
S901 ⚠	1-553-318-31	SWITCH, PUSE (POWER)
S902	1-554-488-00	SWITCH, SLIDE (POWER)
T1	1-404-249-00	COIL, FM DETECTOR
T2	1-404-455-00	TRANSFORMER, IF
T901 ⚠	1-447-801-11	TRANSFORMER, POWER
TB301	1-536-834-11	TERMINAL BOARD (SPEAKER)
⚠THP101	1-202-851-00	SOLID 3.3 1/4W F
⚠THP201	1-202-851-00	SOLID 3.3 1/4W F

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